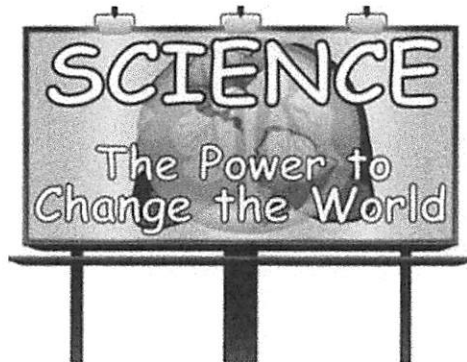


**- Solutions -**  
**5<sup>th</sup> Grade Fall Science Warm-Ups**



**Student Success Strategy "CRUGWIE"**

**C - Cover your answers**

**R - Read the questions twice**

**U - Underline the important information**

**G - Go to your schema**

**W - Write YOUR OWN ANSWER**

**I - Is there a match?**

**E - Explain the wrong answers**

**- Solutions -**

**Student Name \_\_\_\_\_ - Solutions -**

**Homeroom Teacher \_\_\_\_\_**

## Science Fall Warm-up Implementation

These warm-ups are intended for use in the fall semester of 5<sup>th</sup> grade. They are designed for the following order of science topic introduction beginning in August: Physical Science, Earth Science and Life Science. Students should complete one (1) a day beginning about the third week of school, so the teacher may teach the core material for students to possess a basic understanding to complete the warm-ups independently. It is also recommended the teacher review the warm-ups ahead of time to ensure he/she covers the content of the warm-ups in their daily lessons. The teacher may also add material and require students to answer additional questions on the back of each warm-up.

This process has successfully been used each fall for the last 10 years in an urban Title 1 school and achieved exceedingly high success rates (above 90% passing rates) on standardized tests in Texas on the TAKS and STAAR assessments. However, it is imperative that there is high levels of accountability on the content as well as high time on task in the classroom learning environment. If those two fundamental aspects of the classroom are consistently implemented, then a structured resource system will be extremely effective. The strategy that a student takes to approach a question should be logical and replicable. Hence, a student writes "CRUGWIE" on the top of their warm-up and applies that process to each question where it is applicable. This system is explained on the front cover of the warm-ups. Finally, a student's reading ability is absolutely key for success on standard assessments. A student should be held accountable for independent reading comprehension from the second semester of second grade. Students should be on-grade level English readers by third grade and sound, fundamental readers by fifth grade. If this is a general expectation of a school, the students will rise to this expectation, and both the school's science and mathematics performance will rise accordingly.

There are also other resources that are recommended so the students are prepared for the spring STAAR assessment. Those resources include the following:

1. Comprehensive Science Assessment, Options Publishing , Copyright 2005 – Homework Book 1
2. Motivation Science – Separated into Life, Earth, and Physical used in the Fall with CRUGWIE
3. Forde-Ferrier Vocabulary – Separated into Life, Earth , and Physical Science
4. Science STAAR Coach (used as homework Book 2)
5. Science Preps (use 50 days from STAAR testing) – available for free download on Teachers Pay Teachers. [www.thenew3rseducationconsulting.com](http://www.thenew3rseducationconsulting.com)

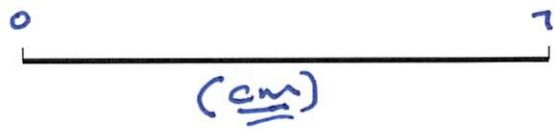

These resources used in conjunction with strong student accountability, classroom management and pressing for English reading should result in replicable student outcomes as at Graham Elementary in Austin ISD since 2008.

*Blaine A. Helwig*

Blaine A. Helwig  
Principal,  
Graham Elementary  
Austin ISD

# SOLUTIONS

## Fifth Grade Science Warm-up – Number 1

<p>1. What are <u>facts</u>, <u>figures</u> and other <u>evidence</u> recorded and learned through <u>observation</u>?</p> <p>A. Scientific theory - <i>observation &amp; experiment</i>            B. Inferring - <i>form a conclusion</i>            C. Hypothesis - <i>educated guess</i>  <input checked="" type="radio"/> D. Data</p>	<p>2. What should students do <u>first</u> to practice safety in a science laboratory?</p> <p>A. Taste all food items to identify them.            B. Leave hair, shirt sleeves hanging down.  <input checked="" type="radio"/> C. Listen and follow the teachers instructions.            D. Clean up all instruments after the experiment.</p>														
<p>3. All of the following statements are <u>sensory</u> (smell, sight, touch, taste, hear) observations of a <u>cookie</u> EXCEPT? <i>NOT</i></p> <p>A. The cookie's surface is rough. <i>Touch</i>            B. The cookie smells like chocolate. <i>Smells</i>  <input checked="" type="radio"/> C. The cookie is made by Nabisco, Inc. <i>NOT</i>            D. The cookie's color is brown. <i>Sight</i></p>	<p>4. What characteristic would a scientist use to classify these objects: a red rock, a <u>white</u> straw, a <u>green</u> plant, and a <u>brown</u> soil sample? <i>Color</i></p> <p><input checked="" type="radio"/> A. The color of the objects.            B. The weight of the objects.            C. The texture of the objects.            D. The size of the objects.</p>														
<p>5. Which statement below is the <u>BEST</u> definition of matter? ( Hint: What is matter?)</p> <p>A. Only living things are classified as matter.  <input checked="" type="radio"/> B. Anything that has mass and takes up (occupies) space is considered matter.            C. Only visible objects are classified as matter.            D. Only things on earth are considered matter.</p>	<p>6. Measure the line below to the nearest <u>cm</u>.</p> <p>A. 8 cm            B. 5 cm  <input checked="" type="radio"/> C. 7 cm            D. 6 cm</p> 														
<p>7. What has <u>mass</u> and takes up <u>space</u>?</p> <p>A. Volume            B. Light            C. Density  <input checked="" type="radio"/> D. Matter</p>	<p>8. The amount of <u>matter</u> in an object is its:</p> <p>A. Volume  <input checked="" type="radio"/> B. Mass            C. Density            D. Light</p>														
<p>9. All of the following are safe steps to take when using electrical appliances EXCEPT? <i>Except means NOT</i></p> <p>A. Wear gloves to protect your hands. <i>yes</i>            B. Unplug the appliance by pulling on the plug and not the cord. <i>yes</i>  <input checked="" type="radio"/> C. It is safe to place electrical appliances in or near water. <i>NOT</i>            D. Keep cords out of the way. <i>yes</i></p>	<p>10. What state of matter has <u>definite shape</u> and <u>definite volume</u>?</p> <p>A. Liquid  <input checked="" type="radio"/> B. Solid            C. Gas            D. Helium</p> 														
<p>11. Match the correct fact on the left with the definition given on the right.</p> <table style="width: 100%; border: none;"> <tbody> <tr> <td style="width: 50%; border: none;"><u>D</u> Matter</td> <td style="width: 50%; border: none;">A. The amount of matter in an object.</td> </tr> <tr> <td style="border: none;"><u>E</u> Compound</td> <td style="border: none;">B. Using the eyes to obtain (get) information.</td> </tr> <tr> <td style="border: none;"><u>B</u> Observe</td> <td style="border: none;">C. To arrange items in a group using a system.</td> </tr> <tr> <td style="border: none;"><u>C</u> Classify</td> <td style="border: none;">D. Any substance in the Universe that has mass and takes up space.</td> </tr> <tr> <td style="border: none;"><u>G</u> Communicate</td> <td style="border: none;">E. A substance that is made up of two or more elements (Ex: CO<sub>2</sub>, H<sub>2</sub>O, or NaCl).</td> </tr> <tr> <td style="border: none;"><u>A</u> Mass</td> <td style="border: none;">F. The amount of space an object takes up(occupies).</td> </tr> <tr> <td style="border: none;"><u>F</u> Volume</td> <td style="border: none;">G. The process of exchanging information, verbal or otherwise.</td> </tr> </tbody> </table>		<u>D</u> Matter	A. The amount of matter in an object.	<u>E</u> Compound	B. Using the eyes to obtain (get) information.	<u>B</u> Observe	C. To arrange items in a group using a system.	<u>C</u> Classify	D. Any substance in the Universe that has mass and takes up space.	<u>G</u> Communicate	E. A substance that is made up of two or more elements (Ex: CO <sub>2</sub> , H <sub>2</sub> O, or NaCl).	<u>A</u> Mass	F. The amount of space an object takes up(occupies).	<u>F</u> Volume	G. The process of exchanging information, verbal or otherwise.
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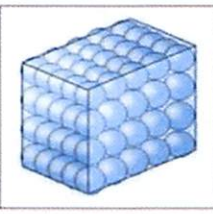

# SOLUTIONS

## Fifth Grade Science Warm-up – Number 2

<p>1. Jon has a bunch of buttons. Some are <u>circular</u>, some <u>rectangular</u>, some are <u>square</u>, and some are <u>triangular</u>. Jon should <u>classify</u> the buttons by:</p> <p><input checked="" type="radio"/> A. Their shape  <input type="radio"/> B. Their size  <input type="radio"/> C. Their texture  <input type="radio"/> D. Their luster</p>	<p>2. Students are ready to conduct a science experiment in the classroom. Which equipment will they need to protect them?</p> <p>A. Goggles <i>yes</i>            B. Coat lab <i>yes</i>            C. Gloves <i>yes</i>  <input checked="" type="radio"/> D. All of the above</p>
<p>3. Which of the following is a <u>solution</u>?</p> <p>A. A fresh garden salad.  <input checked="" type="radio"/> B. Hot tea with sugar.            C. A cold fruit salad.            D. A hard taco.</p>	<p>4. Which statement(s) below is true?</p> <p>A. All living and dead things are matter. <i>True</i>            B. Anything you can see and touch is matter. <i>True</i>            C. Sound and Light are <u>not</u> matter. <i>True</i>  <input checked="" type="radio"/> D. All statements above are correct.</p>
<p>5. Which statement below is the <u>BEST</u> definition of matter? (Hint: what is matter)</p> <p><input checked="" type="radio"/> A. If it has mass and occupies space it is matter.  <input type="radio"/> B. Only living things are considered matter.  <input type="radio"/> C. Only visible objects are classified as matter. <i>AIR</i>  <input type="radio"/> D. Only things on earth are considered matter.</p>	<p>6. Measure the line below to the <u>nearest cm.</u></p> <div style="text-align: center;"> <p style="margin-left: 100px;">0 <span style="margin-left: 200px;">4.7cm</span></p> <p style="margin-left: 150px;"><u>5cm</u></p> </div> <p>A. 8 cm            B. 4 cm            C. 7 cm  <input checked="" type="radio"/> D. 5 cm</p>
<p>7. Which one of the following is <u>not</u> made of matter?</p> <p><input checked="" type="radio"/> A. Light  <input type="radio"/> B. A tree <i>yes</i>  <input type="radio"/> C. A rock <i>yes</i>  <input type="radio"/> D. A desk <i>yes</i></p> <div style="text-align: center; border: 1px solid blue; border-radius: 50%; padding: 5px; width: fit-content; margin: 10px auto;"> <i>Volume &amp; Mass</i> </div>	<p>8. Which state of matter takes the <u>shape</u> and <u>volume</u> of the container it is in?</p> <p>A. Liquid <span style="margin-left: 20px;">→</span> <span style="margin-left: 20px;">→</span>  <input checked="" type="radio"/> B. Solid  <input type="radio"/> C. Gas  <input type="radio"/> D. Magnetism</p> <div style="text-align: center; margin-top: 10px;"> <i>Note: LIQUID NOT THE ENTIRE VOLUME</i> </div>
<p>9. Which state of matter takes the <u>shape</u> of the container, but has a <u>fixed</u> volume?</p> <p><input checked="" type="radio"/> A. Liquid  <input type="radio"/> B. Solid  <input type="radio"/> C. Gas  <input type="radio"/> D. Sound</p>	<p>10. During a field activity, students examined several flowering plants. Before they eat lunch they should:</p> <p>A. Drink plenty of water.  <input checked="" type="radio"/> B. Wash their hands with soap and water.  <input type="radio"/> C. Cut all the flower from the plants.  <input type="radio"/> D. Decide whether any of the plants are poisonous.</p>
<p>11. Match the correct fact on the left with the definition given on the right.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>F</u> Estimate</p> <p><u>C</u> Measure</p> <p><u>D</u> Matter</p> <p><u>B</u> Predict</p> <p><u>A</u> Infer</p> <p><u>E</u> Mass</p> </div> <div style="width: 45%;"> <p>A. To arrive at a conclusion based on facts and observations.</p> <p>B. To make an educated guess based on past knowledge and experience.</p> <p>C. To determine or find the length, size, weight or quantity of a substance/object.</p> <p>D. Any substance in the Universe that has mass and volume(occupies space).</p> <p>E. The amount of matter in an object. Measured with a balance/scale in Kilograms, grams, or milligrams.</p> <p>F. An approximate measure of something.</p> </div> </div>	

# — SOLUTION —

## Fifth Grade Science Warm - Up - Number 3

<p>1. What is the first thing an elementary student should do when she spill a chemical on her skin during a laboratory experiment?</p> <p>A. Wipe it off and finish the experiment.  <input checked="" type="radio"/> B. Inform the teacher immediately.            C. Tell a classmate.            D. Pretend nothing happened and continue working.</p>	<p>2. Students are ready to conduct a science experiment using chemicals in the classroom. Which equipment will they need to protect them?</p> <p>A. Goggles            B. Coat lab            C. Gloves  <input checked="" type="radio"/> D. All of the above</p>
<p>3. Which statement below is <u>False</u>?</p> <p><input checked="" type="radio"/> A. Sound and Light are matter. <b>F</b>            B. All living and dead things are matter. <b>T</b>            C. Anything you can see and touch is matter. <b>T</b>            D. All matter has mass. <b>T</b></p>	<p>4. Measure the line below to the <u>nearest cm</u>.</p> <p>A. 8 cm  <input checked="" type="radio"/> B. 7 cm            C. 5 cm            D. 6 cm</p> 
<p>5. Which statement below is false?</p> <p>A. Magnetism, gravity, light, and sound are matter. <b>F</b>            B. Only things you can see are matter. <b>F</b>            C. Electricity is matter. <b>F</b>  <input checked="" type="radio"/> D. All statements above are false.</p>	<p>6. The <u>space</u> that an object occupies is the object's:</p> <p>A. Density  <input checked="" type="radio"/> B. Volume            C. Melting point            D. None of the above is correct.</p>
<p>7. Which one of the following is <u>not</u> made of matter?</p> <p>A. Water ✓            B. A piece of metal ✓  <input checked="" type="radio"/> C. Gravity            D. Air → <b>AIR HAS MASS &amp; VOLUME</b></p>	<p>8. Which of the following is a <u>solution</u>?</p> <p><input checked="" type="radio"/> A. A bucket full of ocean water. → <b>Salt + H<sub>2</sub>O</b>            B. Corn flakes with milk.            C. A large tropical fruit salad.            D. Raisins, m&amp;m's, and gummie bears in a bowl.</p>
<p>9. Which state of matter holds its shape and has a <u>fixed</u> volume?</p> <p>A. Liquid  <input checked="" type="radio"/> B. Solid            C. Gas            D. Sound</p>	<p>10. Before you <u>touch</u> an electric plug, switch, or outlet, you should:</p> <p>A. Ask the custodian.  <input checked="" type="radio"/> B. Make sure your hands are dry. <b>Water is a conductor</b>            C. Make sure your hands are clean.            D. Ask the nurse.</p>
<p>11.  This is a: A. Gas            B. Liquid  <input checked="" type="radio"/> C. Solid</p>	<p>12.  This is a: A. Gas  <input checked="" type="radio"/> B. Liquid  <del>C. Solid</del>  <b>Liquid</b></p>
<p>13. Match the correct fact on the left with the definition given on the right.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>C</u> Mass  <u>E</u> Density ←  <u>B</u> Volume  <u>A</u> Weight  <u>D</u> Matter</p> </div> <div style="width: 45%;"> <p>A. Measure of <u>gravity</u> acting on an object's mass            B. The amount of <u>space</u> an object takes up.            C. The amount of <u>material</u> in something (It is measured in kilograms, grams, or milligrams).            D. Any substance in the Universe that has mass and occupies(takes up) space.            E. The measure of the mass of a substance per unit volume.( how much of something in a given volume: how compact something is)</p> </div> </div> <p style="text-align: center; margin-top: 20px;"><b>KID DEFINITION:</b>  <b>Density = How TIGHTLY "PACKED"</b></p>	

# - SOLUTIONS -

## Fifth Grade Science Warm - Up - Number 4

<p>1. All of the following would be helpful in separating a mixture of sand and salt <u>EXCEPT</u>: <u>NOT</u></p> <p><input checked="" type="radio"/> A. A magnet. <u>→ NO → NOT METAL</u></p> <p>B. A glass cup. <u>YES</u></p> <p>C. A filter paper and funnel. <u>YES</u></p> <p>D. A gallon of water. <u>YES - DISSOLVES SALT</u></p>	<p>2. Juan put a sugar cube in a cup of hot water. After a while, what happened to the sugar cube?</p> <p>A. It changed color.</p> <p><input checked="" type="radio"/> B. It dissolved. <u>— OCEAN WATER EXAMPLE</u></p> <p>C. It evaporated. <u>— SUGAR DOESN'T EVAPORATE</u></p> <p>D. It stayed on the bottom of the cup.</p>
<p>3. The <u>mass</u> of a solid object stays the same until:</p> <p>A. It is put into orbit in space. <u>→ NOT WEIGHT</u></p> <p>B. It changes volume by expanding or contracting.</p> <p><input checked="" type="radio"/> C. Matter is taken away from or added to the object. <u>←</u> <u>MASS IS INTRINSIC → SAME EVERYWHERE</u></p> <p>D. The object is taken to another planet.</p>	<p>4. When water <u>boils</u> or <u>freezes</u>:</p> <p><input checked="" type="radio"/> A. A <u>physical</u> change takes place. <u>WATER CHANGES FORMS</u></p> <p>B. A chemical change takes place.</p> <p>C. It breaks down into atoms. <u>GAS → WATER → ICE</u> <u>← LIQUID SOLID ←</u></p> <p>D. A new substance is formed.</p>
<p>5. What force <u>pulls</u> things toward the <u>center</u> of Earth?</p> <p>A. Friction</p> <p><input checked="" type="radio"/> B. Gravity <u>GRAVITATION</u> <u>FIELDS' STRENGTH</u> <u>DEPENDS ON MASS</u></p> <p>C. Magnetism</p> <p>D. Electricity</p>	<p>6. A different chemical substance is formed when:</p> <p>A. A cloth is cut. <u>P</u></p> <p>B. A cup breaks. <u>P</u></p> <p><input checked="" type="radio"/> C. A steak is grilled. <u>C</u></p> <p>D. Water boils. <u>P</u></p>
<p>7. Eduardo pours himself a glass of cola with ice in it. Which objects are solid, liquid, and gas?</p> <p>A. The cola is the solid, the ice is the liquid, and the bubbles are the gas.</p> <p>B. The ice is the solid, the bubbles are the liquids, and the cola is the gas.</p> <p>C. The bubbles are the solids, the cola is the liquid, and the ice is the gas.</p> <p><input checked="" type="radio"/> D. The ice is the solid, the cola is the liquid, and the bubbles are the gas.</p>	<p>8. What is the difference between a physical and chemical change?</p> <p><input checked="" type="radio"/> A. A chemical change produces a new substance, a physical change does not.</p> <p>B. A chemical change can be seen, a physical change cannot.</p> <p>C. A chemical change and a physical change are the same.</p> <p>D. A physical change produces a new substance, a chemical change does not.</p>
<p>9. Jose watches an <u>ice cube melt</u> completely. Has a chemical reaction taken place? <u>WATER FORMS ARE</u></p> <p>A. Yes, a gas has been given off. <u>PHYSICAL</u></p> <p>B. Yes, the color has changed. <u>changes</u></p> <p><input checked="" type="radio"/> C. No, no new substances have formed.</p> <p>D. No, water does not react chemically.</p>	<p>10. Which type of energy must be added to change an ice cube to water vapor?</p> <p>A. Electromagnetic energy.</p> <p><input checked="" type="radio"/> B. Thermal( heat) energy. <u>WATER</u> <u>↑</u> <u>ICE</u> <u>↑</u> <u>HEAT</u></p> <p>C. Gravitational Force energy.</p> <p>D. Mechanical energy</p>
<p>11. Match the words on the left with their correct definitions on the right.</p> <p><u>C</u> Volume</p> <p><u>D</u> Physical Change</p> <p><u>B</u> Chemical Change</p> <p><u>A</u> Mass</p>	<p>A. The <u>amount</u> of material in an object. <u>MASS</u> <u>INTRINSIC</u></p> <p>B. In this change, the substance is altered (changed) chemically and display different physical and chemical properties after the change. A new substance is formed and the change is <u>irreversible</u>. <u>EXAMPLE → BURNING A LOG</u></p> <p>C. The amount of <u>space</u> an object takes up.</p> <p>D. Change that can affect the size, shape or color of a substance but <u>does not affect</u> its composition. This change is <u>reversible</u>. <u>EXAMPLE → WATER</u></p>

# — SOLUTIONS —

## Fifth Grade Science Warm - Up - Number 5A

Match the words on the left with their correct definitions on the right.

<u>K</u>	Liquid	<p><b>NOTE:</b>            ① Connect R-X on student copy            ② N &amp; L ARE TRICKY.</p>	A. State of matter in which size, shape, and volume changes depending upon the size and shape of the container.
<u>E</u>	Volume		B. The amount of material in an object or substance. Measured with a scale in Kilograms, grams, or milligrams.
<u>I</u>	Estimate		C. In this change, the substance is altered chemically and displays different physical and chemical properties after the change. A new substance is formed and this type of change is irreversible.
<u>R</u>	Mixture		D. Any substance in the Universe that has mass and occupies space. The "stuff" that everything is made out of.
<u>C</u>	Chemical Change		E. The amount of space an object takes up.
<u>B</u>	Mass		F. A change that can affect the size, shape or color of a substance but <u>does not affect</u> its composition. This change is reversible.
<u>D</u>	Matter		G. The <u>resistance</u> that one surface or object encounters when moving over another.
<u>J</u>	Density		H. State of matter in which the material keeps its shape, has a fixed size, and fixed volume.
<u>T</u>	Measure		I. To approximate an answer or quantity.
<u>A</u>	Gas		J. A measure of the mass of a substance per unit volume.
<u>G</u>	Friction	K. State of matter in which the material takes the shape of its container and it has a <u>fixed</u> volume.	
<u>H</u>	Solid	L. The <u>force</u> that attracts two bodies toward each other. <b>GRAVITY</b>	
<u>L</u>	Gravity	M. To arrange in a group using a system.	
<u>Q</u>	Communicate	N. The <u>force</u> with which a body(object) is attracted to Earth or other celestial body. This <u>varies</u> depending on which planet the object is on. <b>Weight is Extrinsic - Changes based on strength of gravitational</b>	
<u>F</u>	Physical Change	O. A mixture in which a solid is <u>dissolved</u> in a liquid. Examples: <b>field seawater, hot tea with sugar, Kool Aid.</b> <b>100 lb =&gt; Earth</b> <b>17 lb =&gt; moon</b>	
<u>S</u>	Infer	P. Using the eyes to obtain (get) information.	
<u>P</u>	Observe	Q. The process of exchanging information, verbal or otherwise.	
<u>M</u>	Classify	<b>R</b> A large tropical fruit salad is an example of this.	
<u>O</u>	Solution	<b>S</b> to come from a conclusion based on facts and observations.	
<u>N</u>	Weight	<b>T</b> to determine or find the length, size, weight or quantity of a substance.	
<u>V</u>	Element	<b>U</b> A substance that is made up of two or more elements. Examples: Water(H <sub>2</sub> O), Salt(NaCl), Carbon Dioxide(CO <sub>2</sub> ).	
<u>X</u>	Thermal Energy	<b>M</b> a pure substance made of only one kind of atom. Examples: Gold, iron, hydrogen, Oxygen, Helium, Silver.	
<u>U</u>	Compound	<b>X</b> Energy that is related to and/or caused by <u>heat</u> . Best example is the Sun. A fire, a match, a burner.	

Connect on student copy R-X

# — SOLUTIONS —

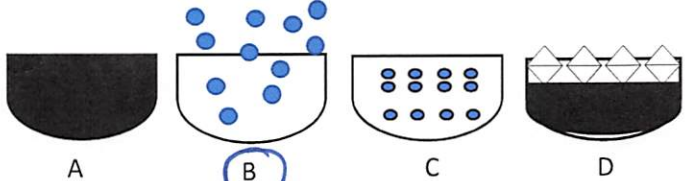
## Fifth Grade Science Warm - Up - Number 5--TEST

<p>1. Lucie is riding in her mom's car without her seat belt. The car stops suddenly and Lucie lunges forward and hits the windshield. That is an example of?</p> <p>A. Gravity - Force toward center of mass</p> <p><b>B. Inertia - CONTINUE MOTION IN STRAIGHT LINE</b></p> <p>C. Acceleration - INCREASES VELOCITY CHANGE</p> <p>D. Potential energy - stored energy based on height-mgh</p>	<p>2. Which action will result in a product with new <u>chemical reaction</u>?</p> <p>A. Shredding a newspaper P</p> <p>B. Breaking a mirror P</p> <p>C. Cutting wood P</p> <p><b>D. Popping popcorn = NEW SUBSTANCE</b></p>
<p>3. A house made of toy blocks is weighed. It is taken apart and each block weighed separately. If the weight of all the blocks is added, what will it total?</p> <p>A. A little less than the weight of the house.</p> <p><b>B. The same as the house.</b></p> <p>C. A little more than the weight of the house.</p> <p>D. It would depend on how large the house was.</p>	<p>4. Mr. Adams mops the gym floor everyday. He then puts up a sign that says "Caution: Wet floor". The effect of which force is <u>weakened</u> when the floor is wet?</p> <p><b>A. Friction - SLIP</b></p> <p>B. Gravitational force</p> <p>C. Inertia</p> <p>D. Magnetism</p>
<p>5. What is the most likely reason cars are designed with smooth surfaces?</p> <p>A. To overcome gravity.</p> <p>B. To stop easier.</p> <p><b>C. To <u>reduce</u> air resistance.</b></p> <p>D. To keep the engine cool.</p>	<p>6. Which tool should a student use to compare the masses of two small rocks?</p> <p>A. A ruler</p> <p>B. A hand lens</p> <p><b>C. A balance</b></p> <p>D. A measuring cup</p>
<p>7. Match the words on the left with their correct definitions on the right.</p> <p><u>G</u> Mixture</p> <p><u>D</u> Density</p> <p><u>E</u> Weight</p> <p><u>B</u> Matter</p> <p><u>C</u> Volume</p> <p><u>F</u> Solution</p> <p><u>A</u> Mass</p>	<p>A. The <u>amount</u> of material in an object/substance. Measured with a balance/scale in Kilograms, grams, or milligrams.</p> <p>B. Any substance in the Universe that has mass and occupies (takes up) space. The "stuff" that everything is made out of.</p> <p>C. The amount of <u>space</u> an object takes up.</p> <p>D. A measure of the mass of a substance <u>per unit volume</u>. - PACKED</p> <p>E. The force with which a body(object) is attracted to Earth or other celestial body. A measure of the pull of gravity. This <u>varies</u> depending on which planet the object is on.</p> <p>F. A mixture in which a solid is <u>dissolved</u> in a liquid. Examples: seawater, hot tea with sugar, Cool Aid.</p> <p>A large tropical fruit salad is an example of this.</p> <p>G.</p>



# — SOLUTIONS —

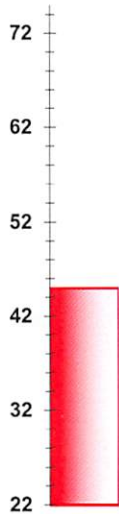
## Fifth Grade Science Warm-up – Number 6

<p>1. Which tool should a student use to <u>magnify</u> objects during a field investigation?</p> <p>A. A balance/scale  <input checked="" type="radio"/> B. A hand lens            C. A telescope            D. A thermometer</p>	<p>2. All of the following materials would be attracted by a magnet EXCEPT? <u>NOT METAL</u></p> <p>A. Iron bolt            B. Steel Nail            C. Metal paperclips  <input checked="" type="radio"/> D. Plastic paperclips</p>
<p>3. Which of the following items would be most useful for sorting a collection of buttons?</p> <p>A. Physical state, mass            B. Magnetism, conducting and insulating.  <input checked="" type="radio"/> C. Size, color, shape            D. Volume, taste, color</p>	<p>4. Which model best illustrates the definition of a gas?</p> <div style="text-align: center;">  <p>A                      <input checked="" type="radio"/> B                      C                      D</p> </div>
<p>5. Before a liquid substance can <u>change</u> to a <u>gas</u>, the substance will have to reach its?</p> <p>A. Dissolving point            B. Melting point            C. Freezing point  <input checked="" type="radio"/> D. Boiling point</p> <p style="text-align: center;"><i>WATER → GAS            ↑↑↑            HEAT</i></p>	<p>6. What property stays the <u>same</u> during physical and chemical changes? <u>DIFFICULT</u></p> <p>A. Density            B. Shape  <input checked="" type="radio"/> C. Mass            D. Arrangement of particle</p> <p style="text-align: center;"><i>Conservation of MASS            - ISOLATED SYSTEM            MASS STAYS THE SAME</i></p>
<p>7. If you were <u>standing</u> on the <u>moon's</u> surface, you would have the: <u>1/6 WT ON MOON</u></p> <p>A. same mass and weight as you have on Earth.  <input checked="" type="radio"/> B. same <u>mass</u>, but weigh more than on Earth.            C. less mass, but weigh more than on Earth.            D. the same mass, but weigh less than on Earth.</p>	<p>8. A student is learning how to measure <u>mass</u>. Which tool should he use to accomplish the task?</p> <p>A. A microscope            B. An anemometer <i>- WIND SPEED - MEASURE</i>            C. A telescope  <input checked="" type="radio"/> D. A pan balance</p>
<p>9. Which one of the following is an example of a <u>physical change</u>?</p> <p>A. Iron rusting <i>C</i>            B. A steak cooking <i>C</i>  <input checked="" type="radio"/> C. Sugar dissolving in water <i>P</i>            D. A piece of coal burning <i>C</i></p>	<p>10. Luis <u>classified</u> matter for an assignment. If he classified the <u>matter</u> as <u>gas</u>, what <u>physical</u> property would describe the gas?</p> <p>A. The gas would only 'fit' in square boxes.            B. The gas would only 'fit' in small jars.  <input checked="" type="radio"/> C. The gas 'fits' in any container he tried.            D. A gas has a fixed shape so it did not 'fit'.</p>
<p>11. Match the correct fact on the left with the definition given on the right.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>D</u> Physical <u>property</u></p> <p><u>C</u> Physical <u>Change</u></p> <p><u>A</u> Friction</p> <p><u>B</u> Electricity</p> <p><u>E</u> Molecule</p> </div> <div style="width: 45%; text-align: center;"> <p><i>Property            VERSUS            CHANGE</i></p> </div> </div>	
<p>A. A force that <u>resists motion</u> between two objects that are in contact with each other.</p> <p>B. The <u>flow of electrons</u> through a conductor.</p> <p>C. The appearance of matter changes, but the matter itself does not change. Ex: cutting a nail in half.</p> <p>D. A property that can be observed or measured without changing the identity of that matter.</p> <p>E. A substance made up of two or more <u>types</u> of atoms. Examples: Water(H<sub>2</sub>O), Salt(NaCl), Carbon dioxide(CO<sub>2</sub>).</p>	

# — SOLUTIONS —

## Fifth Grade Science Warm - Up - Number 7

1. On a January morning, Ms. Roberts asked her students what was the difference in temperatures (Celsius) between the morning and afternoon temperatures shown below?



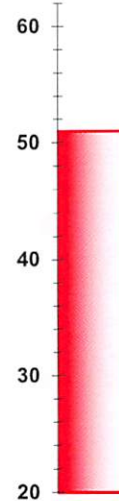
45

- A. 96° Celsius  
 B. 6° Celsius

- C. 8° Celsius  
 D. 44° Celsius

$$\begin{array}{r} 51 \\ - 45 \\ \hline 6 \end{array}$$

Counting By 2's



51

Temperature at 6:00 AM

Temperature at 2:00 PM

2. Which of the following is an example of physical change?

- A. Mixing baking soda and vinegar together, and this causes bubbles and foam. **C**  
 B. A glass cup falls from the counter and shatters on the ground. **STILL A GLASS CUP**  
 C. Lighting a piece of paper on fire and the paper burns up and leaves ashes. **C**  
 D. Baking a birthday cake for your mother. **C**

3. Which of the following is an example of chemical change?

- A. Filling up a balloon with helium.  
 B. Thawing an ice cube. **P**  
 C. A plant collecting sunlight and turning it into food.  
 D. Your little brother ripping up your homework. **P**

4. When a new substance is formed with different properties than the original substance it is called?

- A. A chemical change.  
 B. A physical change.  
 C. A freezing mark.  
 D. A boiling mark.

5. Which change can be reversed easily?

- A. Chemical Change.  
 B. Physical Change.  
 C. Both a physical and chemical change.  
 D. Neither a physical nor a chemical change.

Example => H<sub>2</sub>O

11. Match the words on the left with their correct definitions on the right.

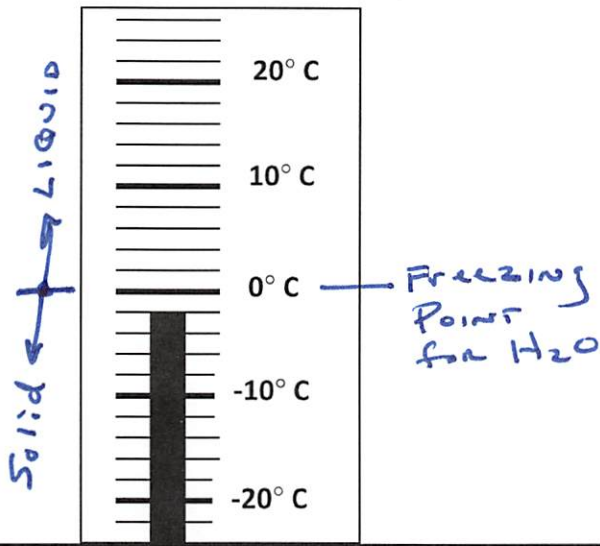
- C Volume  
D Physical Change  
B Chemical Change  
A Mass

- A. The amount of material in an object or substance.  
 B. The substance is altered(changed) chemically and displays different physical and chemical properties after the change. A new substance is formed and this type of change is irreversible.  
 C. The amount of space an object takes up.  
 D. Change that can affect the size, shape or color of a substance but does not affect its composition. This change is reversible.

# SOLUTIONS

## Fifth Grade Science Warm - Up - Number 8

1. Luis, a fifth grader, checks the outdoor temperature one morning after a night of heavy rains. According to the thermometer shown below, what can Luis expect to observe outside his window?



- A. Puddles of warm water.
- B. Snow melting.
- C. A ground that is completely dry.
- D. Ice on the ground.

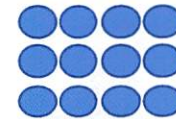
2. Which of these items is an example of a gas?

- A. Oxygen
- B. Hydrogen
- C. Nitrogen
- D. All of the above are examples of a gas.

3.

A scientist uses an instrument to observe the pattern of molecules in a substance. The picture below shows what the scientist sees. What state of matter is the scientist *most* likely observing?

- A. gas
- B. liquid
- C. vapor
- D. Solid



4. What does NOT change when a block of ice melts?

- A. Shape *Y*
- B. Temperature *Y*
- C. Heat energy *Y*
- D. Melting point - *Physical Property*

5. Which of the following is an example of chemical change?

- A. Baking a cake.
- B. Mixing baking soda with vinegar.
- C. Burning wood.
- D. All of the above are examples of chemical change.

11. Match the words on the left with their correct definitions on the right.

B Evaporation

D Chemical property

C Chemical Change

E Condensation

A Chemical reaction

- A. A process where two different substances come into direct contact and react (something happens between them).
- B. A change from a liquid to a gas (Example: Water vapor (gas) to liquid water).
- C. A change in which a substance or substances is changed into one or more new substances with new properties. Ex: chloride and sodium combine to produce salt (NaCl).
- D. A property that describes the way a substance can potentially react chemically with other substances. Ex: gasoline is combustible.
- E. A change from a gas to a liquid (EX. Water vapor to liquid water).

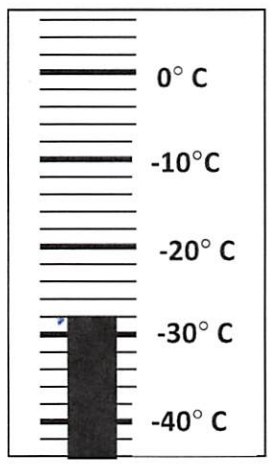
*Ex. Dew on grass in Morning*  
*Ex. Water droplets on Milk in Refrigerator*

# SOLUTIONS

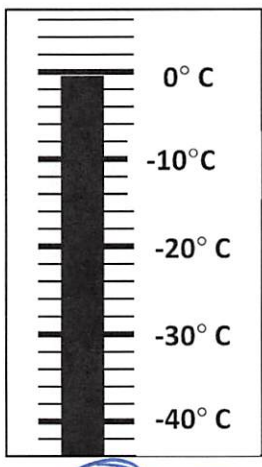
## Fifth Grade Science Warm - Up - Number 9

H<sub>2</sub>O  
WATER

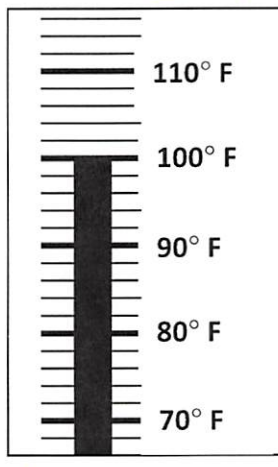
1. Which of the following temperatures shows the melting point of an ice cube in Celsius?



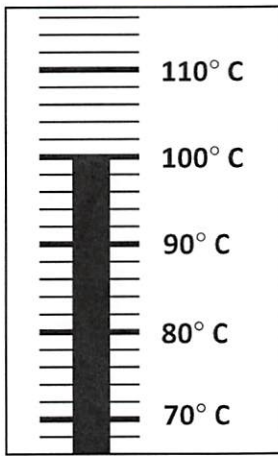
A



B



C



D

~Freezing / Melting Point

2. In which of the following substances can the physical state be changed to a liquid by adding heat?

- A. Wood
- B. Steel → Melts @ about 1370°C or 2500°F
- C. Popcorn
- D. Paper

3. The weight of an object is based highly on?

- A. The color of the object.
- B. The texture of the object.
- C. The gravitational pull of the planet it is on.
- D. The volume of the object.

4. Wendy performed an experiment. She recorded the changes that water went through as it was frozen and boiled. Her experiment was most likely based on?

- A. The effects of gravity on an object.
- B. The stages of the water cycle.
- C. The physical properties of water.
- D. The chemical properties of water.

5. When Mike blows up a balloon, he observes that air takes up space. Which method below is the best one to determine if air has mass?

- A. Add the mass of both the empty and filled balloon.
- B. Subtract the mass of a balloon filled with helium from the mass of a balloon filled with air.
- C. Add the mass of two empty balloons.
- D. Subtract the mass of an empty balloon from the mass of the balloon filled with air.

11. Match the words on the left with their correct definitions on the right.

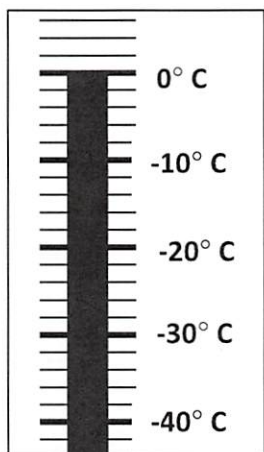
- B Evaporation
- D Chemical property
- C Chemical Change
- E Condensation
- A Chemical reaction

- A. A process where two different substances come into direct contact and react (something happens between them) forming a new substance.
- B. A change from a liquid to a gas (Example: Liquid water to water vapor (gas)).
- C. A change in which a substance (or substances) is changed into one or more new substances with new properties.
- D. A property that describes the way a substance can potentially react chemically with other substances.
- E. A change from a gas to a liquid (EX. Water vapor (gas) to liquid water).

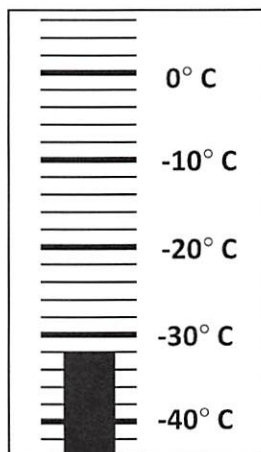
# - SOLUTIONS -

## Fifth Grade Science Warm - Up - Number 10 -TEST

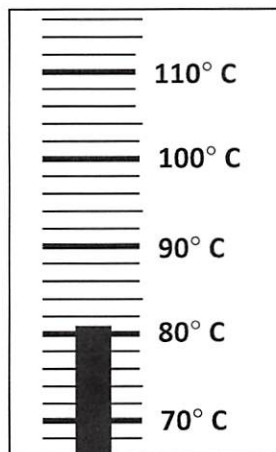
1. Which of the following temperatures shows the freezing point of an ice cube in Celsius?



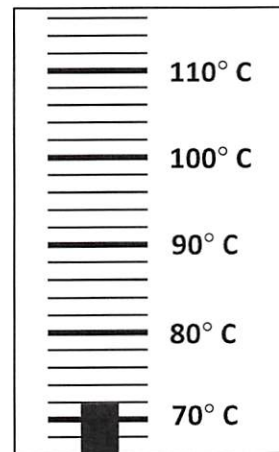
A



B

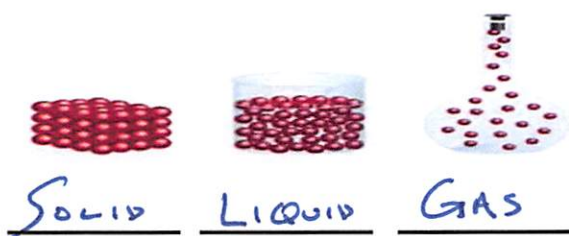


C



D

2. Given the arrangements of the molecules below, label each item as Solid, Liquid, or Gas.



SOLID

LIQUID

GAS

3. Which list of words shows only physical properties of a substance that can be observed or measured without changing its identity?

- A Odor, shape, density, texture, melting point, boiling point, solubility. (A) BURN
- B. Odor, shape, flammability. ← NAH RUSTING
- ~~C~~ Odor, shape, texture, melting point, oxidation.
- D. Odor, shape, texture, combustibility. ← Explode

4. Which statement(s) below is True?

- A. A solid holds its shape and has a fixed volume.
- B. A liquid takes the shape of the container, but has a fixed volume.
- C. A gas takes the shape and the volume of the container.
- D. All statements above are true.

5. Which list shows only examples of a gases?

- A. Lead, iron, gold, silver, nitrogen, aluminum  
x x x x x x
- B Oxygen, nitrogen, helium, hydrogen
- C. Hydrogen, tin, copper, steel, coal  
x x
- D. Carbon dioxide, carbon monoxide, silver, gold  
x x

11. Match the words on the left with their correct definitions on the right.

B Evaporation

D Chemical property

E Condensation

C Chemical Change

A Chemical reaction

- A. A process where two different substances come into direct contact and react. (Ex: Vinegar and baking soda foam and release gas; glycerin and potassium permanganate produce fire).
- B. A change from a liquid to a gas (Example: Water to water vapor).
- C. A change in which a substance or substances is changed into one or more new substances with new properties.
- D. A property that describes the way a substance can potentially react chemically with other substances.
- E. A change from a gas to a liquid (EX. Water vapor to liquid water).

# - SOLUTION -

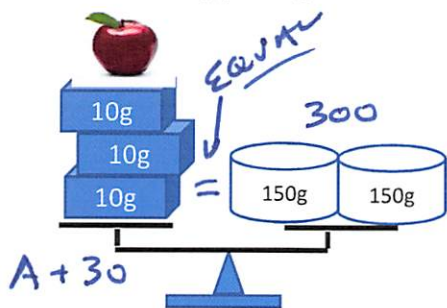
## Fifth Grade Science Warm-up – Number 11

<p>1. Which of the following is an example of condensation?</p> <p>A. Eye glasses fogging up when you enter a warm building on a cold day.</p> <p>B. Clouds in the sky.</p> <p><input checked="" type="radio"/> C. Dew forming on grass in the early morning.</p> <p>D. All of the above are examples of condensation.</p>	<p>2. You know when a substance has dissolved when:</p> <p>A. It disappears from the mixture.</p> <p>B. It spreads evenly throughout a liquid.</p> <p><input checked="" type="radio"/> C. It evaporates and leaves behind small crystals.</p> <p>D. It floats at the top of the liquid.</p>
<p>3. Which item would be attracted by a magnet?</p> <p>A. An glass soda bottle.</p> <p>B. An old plastic penny.</p> <p>C. Aluminum foil. <u>-NO</u></p> <p><input checked="" type="radio"/> D. An iron chair.</p>	<p>4. Which model best illustrates the definition of a gas?</p> <div style="text-align: center;"> </div> <p style="text-align: center;">A      <input checked="" type="radio"/> B      C      D</p>
<p>5. Which is the best method of separating a solution of sugar and water?</p> <p>A. Pouring the solution through a sieve.</p> <p>B. Keep adding sugar until it absorbs the water.</p> <p><input checked="" type="radio"/> C. Heat the solution on a burner until all the water evaporates. <u>Sugar crystals remain</u></p> <p>D. Hang a string in the solution and wait for crystals to form.</p>	<p>6. Which statement is a clue that sugar <u>dissolved</u> in water retains its own properties?</p> <p>A. The mixture is almost totally clear.</p> <p>B. Both substances are now liquids.</p> <p><input checked="" type="radio"/> C. The mixture tastes sweet.</p> <p>D. The volume of the mixture is greater than just the volume of the water alone.</p>
<p>7. Which of the following is the <u>best</u> example of a mixture?</p> <p>A. Milk, chocolate and sugar stirred together.</p> <p>B. Sand, rocks and cement in a bucket.</p> <p>C. Oil floating on top of water.</p> <p>D. Sugar dissolved in water.</p>	<p>8. Matter can be combined in all the following ways EXCEPT which one:</p> <p><input checked="" type="radio"/> A. In a mass</p> <p>B. In a suspension <math>\Rightarrow</math> <u>OIL WATER</u></p> <p>C. In a mixture <math>\Rightarrow</math> <u>FRUIT SALAD BOWL</u></p> <p>D. In a solution <math>\Rightarrow</math> <u>COKE / MT. DEW EX.</u></p>
<p>9. Angela wants to learn how to record <u>mass</u> measurements. Which apparatus should she use?</p> <p>A. A thermometer</p> <p>B. A microscope</p> <p><input checked="" type="radio"/> C. A pan balance</p> <p>D. An anemometer</p>	<p>10. A bucket contains a mixture of iron shavings, sand, and medium sized rocks. Which tools will allow you to completely separate the items.</p> <p>A. A magnet, a bucket of water, and a shovel.</p> <p><input checked="" type="radio"/> B. A magnet and a sieve.</p> <p>C. Filter paper, a sieve, and a magnifying glass.</p> <p>D. A sieve, water, and filter paper.</p>
<p>11. Match the correct fact on the left with the definition given on the right.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>D</u> Water vapor</p> <p><u>A</u> Mixture</p> <p><u>B</u> Evaporation</p> <p><u>E</u> Solution</p> <p><u>C</u> Condensation</p> </div> <div style="width: 50%;"> <p>A. Two or more material mixed together. Example: fruit salad, cereal, sugar, and raisins.</p> <p>B. A physical change from liquid to vapor(gas).</p> <p>C. A physical change from vapor (gas) to liquid.</p> <p>D. H<sub>2</sub>O in the form of an invisible gas. Examples of invisible gases: Oxygen, Nitrogen, Carbon dioxide.</p> <p>E. A mixture in which a solid <u>dissolves</u> in a liquid. Example: Salt (NaCl) mixed with water (H<sub>2</sub>O) to form salt water, Kool-Aid, hot tea with sugar.</p> </div> </div>	

# - SOLUTIONS -

## Fifth Grade Science Warm-up – Number 12

1. What is the mass of the apple in grams?



(Hint: Sum the masses on the right pan. Then, subtract the total mass of weights next to the apple in the left pan.)

- A. 270 g
- B. 330 g
- C. 30 g
- D. 40 g

$$\begin{aligned} A + 30 &= 300 \\ 270 + 30 &= 300 \\ \hline A &= 270 \text{ g} \end{aligned}$$

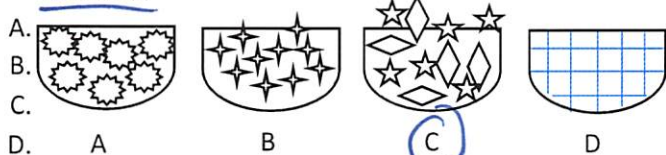
2. Which of the five senses should Joe use to check if a solution has salt dissolved in it?

- A. Hearing or touching.
- B. Listening
- C. Seeing
- D. Tasting

3. All of the following will be attracted by a magnet EXCEPT:

- A. Iron ore from a mine
- B. A glass sphere
- C. Metal paper clips
- D. A Steel hanger

4. Which of the following is the best example of a mixture?



5. Which of the following is the best example of a solution?

- A. Chicken nuggets and French fries.
- B. Rocks, sand, gravel and cement.
- C. Flour mixed with hot water.
- D. Sugar dissolved in hot tea.

6. Ore from a mine is a mixture of coal, dirt, and iron. How can the coal and iron be separated from the dirt?

- A. Use a vacuum to pick up the dirt, then use a filter to remove the coal from the iron.
- B. Use a magnet to remove the iron, then use a screen and water to wash the dirt away from the coal.
- C. Pass the mixture through a screen.
- D. Pour gasoline and set it on the fire.

7. Joe made lemonade for his mom. She tasted it, and though the lemonade was too weak. How can she make the lemonade stronger?

- A. Increase the concentration of lemonade by adding more lemon juice.
- B. Increase the concentration of lemonade by adding more water. *Dilute* (teach this word.)
- C. Add more sugar to the lemonade. *Sweeter*
- D. Add more ice cubes to the lemonade. *Colder*

8. Which of these items is an example of a gas?

- A. Oxygen
- B. Hydrogen
- C. Nitrogen
- D. All of the above are examples of a gas.

9. Which item will be repelled by a magnet?

- A. A wooden spatula
- B. Another magnet
- C. Any ferrous material
- D. An aluminum soda can

*Ferrous = Iron content*

10. Match the correct fact on the left with the definition given on the right.

- C Water vapor
- B Dilute
- D Solution
- A Concentration

Also teach the word "absorb"

- A. The amount of a substance in a unit of liquid.
- B. The process of making a solution weaker or less concentrated, by adding water or some other liquid.
- C. Water in the form of an invisible gas. Examples of invisible gases: chlorine, neon, argon, helium.
- D. A mixture in which a solid dissolves in a liquid.

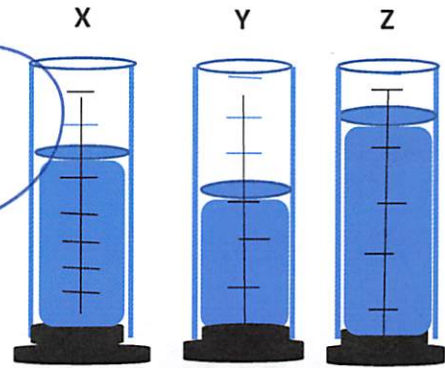
# - Solution -

## Fifth Grade Science Warm-up – Number 13

1. All of the following are true observations about the contents of graduates X, Y, and Z below, EXCEPT: **NOT**

- A. Graduate marked Y contains the least amount of liquid. **T**
- B. Graduate marked X contains less liquid than Z, but more liquid than graduate ~~X~~ Y. **T**
- C. Graduate Z contains twice the amount of liquid of graduate X. **F**
- D. The contents of graduates X combined with the contents of graduate Y are more than the contents of graduate Z. **T**

Connect on Student copy



2. Which substances when mixed together will retain their original physical properties?

- A. Salt and water.
- B. Water with milk.
- C. Milk and water.
- D. Rocks and sand.**

3. Which of the following choices would be the easiest process to separate a mixture of oil and water?

- A. Strain the mixture through a sieve.
- B. Pour the mixture into two parts
- C. Freeze the mixture.
- D. Allow the water to evaporate over time.**

4. Which model best represents a solution?

- A. **Solid**
- B. **suspension**
- C. **liquid****
- D. **liquid**

5. Which of the following is the best example of a mixture?

- A. Oil floating on top of water.
- B. Salt, flour, and sugar mixed in a bowl.**
- C. Milk chocolate with sugar stirred in it.
- D. Milk and sugar stirred in it.

6. A scientist poured 3 parts of liquid soap into a bottle containing 7 parts of oil. Which of the following describes what might have occurred?

- A. The two liquids combined to form a solid.
- B. The two liquids remained separate..**
- C. The two liquids combined to form a soap detergent.
- D. The solutions combined into a flammable mixture.

7. All of the following would be helpful in separating a mixture of sand and salt EXCEPT:

- A. A magnet**
- B. A glass cup
- C. A filter paper and funnel
- D. Water

8. Match the correct fact on the left with the definition given on the right.

**B** Dilute

**A** Concentration - Give Examples

**C** Solvent

**D** Solute

Highly concentrated  
 - Adding lots of a substance

solute goes "By-By" dissolved

- A. The amount of a substance in a unit of liquid.
- B. The process of making a solution weaker or less concentrated, by adding water or some other liquid.
- C. A substance, usually a liquid, capable of dissolving another substance. The liquid part of a solution. Example: the water in a saltwater solution. Water is the universal solvent.
- D. A substance dissolved in another substance, usually the solid component of a solution. Ex: the salt in a saltwater solution; or the sugar in your Kool-Aid.

Pour H<sub>2</sub>O on a Rash



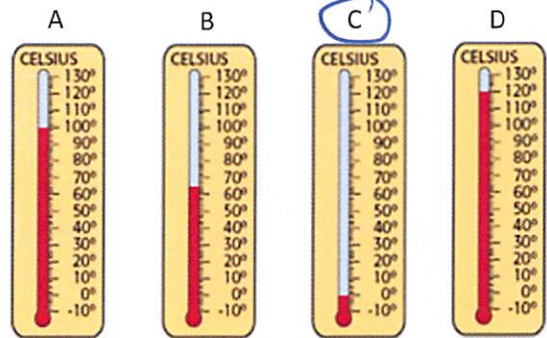
- Solution -

Fifth Grade Science Warm-up – Number 14

1. Of the four Celsius thermometers shown, which is the one most likely to be found in the Arctic?

- A. Thermometer A
- B. Thermometer B
- C. Thermometer C**
- D. Thermometer D

Arctic  
~~Above~~ ⇒ Frozen  
 Solid  
 Below °C  
 of Zero (0°C)



2. Air is a solution because:

- A. It contains many different gases.**
- B. Humans can only breathe solutions.
- C. The different particles are mixed and spread throughout.
- D. Heat is caused by the friction of the gases.

3. A bucket contains a mixture of iron shavings, sand, and medium sized rocks. Which tools will allow you to separate the items completely.

- A. A magnet, a bucket of water, and a shovel.
- B. A magnet and a sieve.**
- C. Filter paper, a large sieve, a magnifying glass and a shovel.
- D. A sieve, water, and filter paper.

4. Which one is the universal solvent?

- A. Alcohol
- B. Paint thinner
- C. Water**
- D. Acetone

5. Which of the following is the best example of a mixture?

- A. Oil floating on top of water. - Suspension
- B. Salt, flour, and sugar mixed in a bowl.**
- C. Milk chocolate with sugar stirred in it.
- D. Milk and sugar stirred in it.

6. Which observation would indicate that a burning candle has undergone a chemical change?

- A. Black smoke is given off; hot gases are rising.
- B. A strong burning odor fills the room.
- C. The color of the flame is changing from bright red to bright blue.
- D. All of the above are indications of chemical change.

7. Ore from a mine is a mixture of coal, dirt, and iron. How can the coal and iron be separated from the dirt?

- A. Pour gasoline and set it on the fire.
- B. Pass the mixture through a screen.
- C. Use a magnet to remove the iron, then use a screen and water to wash the dirt away from the coal.
- D. Use a vacuum to pick up the dirt, then use a filter to remove the coal from the iron.

8. Match the correct fact on the left with the definition given on the right.

- B Dilute
- A Concentration
- C Solvent
- D Solute
- E Solubility

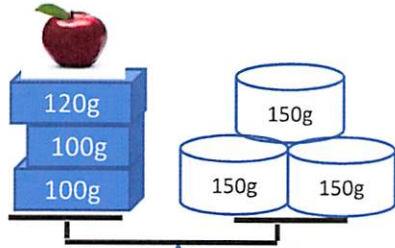
Add  
 Letters  
 to Student  
 Books

- A. The amount of a substance in a unit of liquid.
- B. The process of making a solution weaker or less concentrated, by adding water or some other liquid.
- C. A substance, usually a liquid, capable of dissolving another substance. The liquid part of a solution. Example: the water in a saltwater solution. Water is called the universal solvent.
- D. A substance dissolved in another substance, usually the solid component of a solution. Ex: the salt in a saltwater solution; or the sugar in your Kool-Aid.
- E. The ability of a substance to dissolve; the quality of being soluble. Examples: salt and sugar are both soluble (they dissolve) in most liquids.

# - SOLUTION -

## Fifth Grade Science Warm-up – Number 15--TEST

1. What is the mass of the apple in grams?



$$A + 320 = 450$$

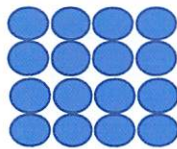
(Hint: Sum the masses on the right pan. Then, subtract the total mass of weights next to the apple in the left pan.)

- A. 130 g
- B. 330 g
- C. 150 g
- D. 340 g

$$A = 130$$

2. A scientist uses an instrument to observe the pattern of molecules in a substance. The picture below shows what the scientist most likely observing?

- A. A gas
- B. A liquid
- C. Water vapor
- D. A Solid



3. If you dissolved a lot of salt in water in a large flat dish and put the dish in bright sunlight on a hot day, what would be left in the dish after a long time?

- A. Dry salt crystals
- B. Water with no salt
- C. The same salty water as before
- D. Nothing

4. If you were standing on the moon's surface, you would have the?

- A. Same mass and weight as you have on Earth.
- B. Same mass, but weigh more than on Earth.
- C. Less mass, but weigh more than on Earth.
- D. The same mass, but weigh less than on Earth.

5. Which will be repelled by a magnet?

- A. A wooden plate
- B. Another magnet
- C. Any *ferrous* material
- D. An aluminum soda can

6. A student riding a bicycle observes that it moves faster on a smooth road than on a rough road. This happens because the smooth road has:

- A. Less gravity
- B. More gravity
- C. Less friction
- D. More friction

7. A frozen ice cream bar is placed in a bowl and left to melt. Which of the following properties of the ice cream bar changed the most once it melted?

- A. Its Color
- B. Its Shape
- C. Its Volume
- D. Its Mass

8. Match the correct fact on the left with the definition given on the right.

B Concentration

C Dilute

E Solvent

A Solute

D Solubility

- A. A substance dissolved in another substance; usually the solid component of a solution. Ex: the salt in a saltwater, or the sugar in hot tea.
- B. The amount of a substance in a unit of liquid.
- C. The process of making a solution weaker or less concentrated, by adding water or some other liquid.
- D. The ability of a substance to dissolve; the quality of being soluble. Examples: salt and sugar are both soluble (they dissolve) in most liquids. This is a physical property.
- E. A substance, usually a liquid, capable of dissolving another substance. The liquid part of a solution. Example: the water in a saltwater.

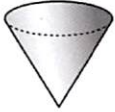
# - SOLUTION -

## Fifth Grade Science Warm - Up - Number 16

1. Which of the following tools would allow for the most efficient way to separate a mixture of soil and rocks?



Magnet

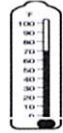


Filter

**A**

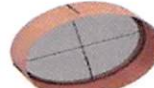


Microscope



Thermometer

**B**



Sieve



Shovel

**C**



Compass



Anemometer

**D**

2. Before a liquid substance like water can change into a gas substance, the water must be heated to reach its:

- A. Melting point
- B. Freezing point
- C. Dissolving point
- D. Boiling point**

3. A bucket contains a mixture of iron shavings, sand, and medium sized rocks. Which tools will allow you to separate the items completely.

- A. A magnet and a sieve.
- B. A magnet, a bucket of water, and a shovel.**
- C. Filter paper, a sieve, and a magnifying glass.
- D. A sieve, water, and filter paper.

4. Which of the following best describes both a physical property and a physical change?

- A. A metal nail left outside to rust.
- B. A raw egg fried in a skilled. *chemical oxidation*
- C. A wooden toy that is set on fire.
- D. A glass marble smashed on the ground.**

5. Which force is most responsible for raindrops falling to the earth?

- A. Gravity**
- B. Friction
- C. Magnetism
- D. Thrust

11. Match the words on the left with their correct definitions on the right.

E Suspension

C Friction

D Gravity

A Dilute

B Solubility

- A. to make a solution less concentrated or weaker, usually by adding more liquid.
- B. The ability of a substance to dissolve; the quality of being soluble. Examples: salt and sugar are both soluble(they dissolve) in most liquids. This is a physical property.
- C. A force that resists motion between two objects that are in contact with each other. Smoother surfaces exhibit less resistance, while rougher surfaces exhibit more resistance.
- D. a force that acts by pulling pairs of objects together (e.g. the moon and the Earth).
- E. A liquid mixture in which the particles don't mix completely and eventually will separate. Mud or muddy water, is where soil, clay, or silt particles are suspended in water. If you leave muddy water alone for awhile the mud will settle to the bottom. Flour and chalk powder will also suspend in water.

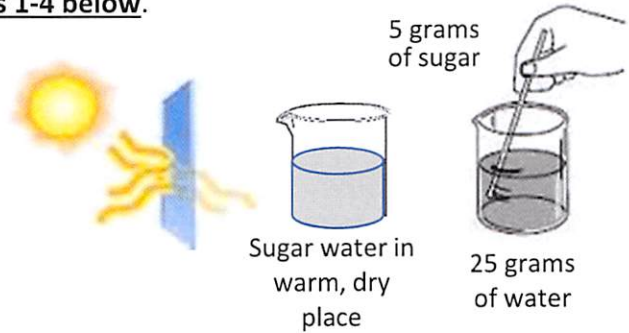
# SOLUTION

## Fifth Grade Science Warm - Up - Number 17

Paul measured and mixed 5 grams of sugar in 25 grams of warm water. Paul, then placed the solution in a warm, sunny location next to a window for a week. Use this information and the diagrams below and your knowledge of science to help you answer **questions 1-4 below**.

### TIP

Keep in mind the causes and effects of changes. Focus on the most logical effects when deciding among answers.



1. When the sugar has dissolved in the water, what change to the sugar's physical properties can the student expect?

- A. A change from the solid sugar to dissolved form.
- B. A change with the sugar from more sweet to less sweet.
- C. A change in the amount of sugar.
- D. No change in the physical properties.

2. After the sugar dissolves, which of its physical properties should the student expect to find unchanged?

- A. The mass of the sugar is now less than it was when it was in solid form.
- B. The sugar crystals will be chemically altered into a new substance.
- C. The sweet taste will not change.
- D. The sugar will become invisible.

3. The purpose of leaving the solution in a warm, sunny location is to:

- A. Observe the sugar using the sun's heat.
- B. Cool the ingredients so they will dissolve.
- C. Evaporate the sugar using the sun's heat.
- D. Evaporate the water from the solution.

4. (From the picture above). If all the water dries up, the amount of sugar left in the cup should be:

- A. 30 grams
- B. 5 grams ✓
- C. 20 grams
- D. 15 grams

5. Match the words on the left with their correct definitions on the right.

C Potential Energy - *Stored*

D Inertia

B Friction

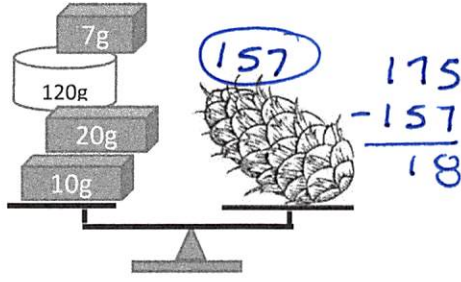
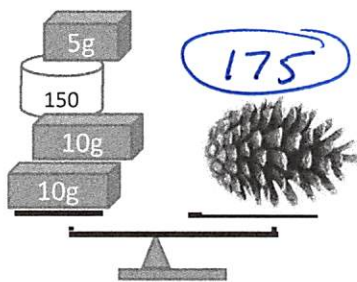
A Kinetic Energy - *Moving*

- A. The energy possessed by a system or object as a result of its motion (kinetic).
- B. A force that resists motion between two objects that are in contact with each other. Smoother surfaces exhibit less of resistance, while rougher surfaces exhibit more of resistance.
- C. Energy an object has because of its position or its makeup. It is called potential energy because it has the potential to be converted into other forms of energy. Example: a stick of dynamite or a boulder on the edge of a cliff.
- D. The tendency of an object to remain at rest if at rest, or, if moving, to keep moving in the same direction, unless acted upon by some outside force.

- SOLUTION -

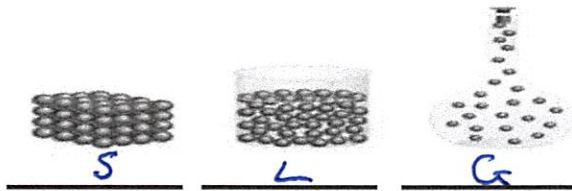
Fifth Grade Science Warm - Up - Number 18

1. A student recorded the masses of two cones using two pan balances. The balances are shown below. What is the difference of the masses of the two cones. Mark your answer in the grid.



	1	8	.	0
0	0	0		0
1	<input checked="" type="radio"/>	1		1
2	2	2		2
3	3	3		3
4	4	4		4
5	5	5		5
6	6	6		6
7	7	7		7
8	8	<input checked="" type="radio"/>		8
9	9	9		9

2. Given the arrangement of the molecules below, label each item as Solid, Liquid, or Gas.



3. Ann and Lorie were sliding on the floor. The force that stops their slide is:

- A. Gravity
- B. Inertia
- C. Thrust
- D. Friction (resistance)

4. Which of the following words have the same meaning as the word moving?

- A. Motion, mobility, kinesis
- B. Inertia, stationary, motionless
- C. gravity, pull
- D. friction, resistance

5. The push or pull that gives kinetic energy to an object is called:

- A. Force
- B. Thrust
- C. Friction (resistance)
- D. Work

6. Circle true or false.

The more heat you apply to an object the faster its atoms will move.  True  False

7. Circle true or false.

Heat travels from the sun by a process called radiation.  True  False

8. Match the words on the left with their correct definitions on the right.

C Potential Energy

A Thermal Energy

E Inertia

B Friction

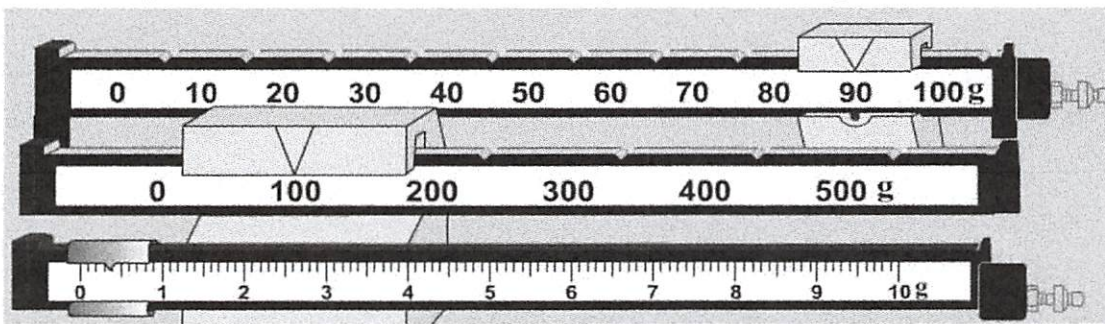
D Kinetic Energy

- A. Energy emitted (gives off) from a fireball (Sun) as thermal radiation (heat).
- B. A force that resists motion between two objects that are in contact with each other. Smoother surfaces exhibit less resistance, while rougher surfaces exhibit resistance.
- C. Energy an object has because of its position or its makeup. It is called potential energy because it has the potential to be converted into other forms of energy. Ex: gunpowder, stretched bow and arrow.
- D. Energy possessed by a body because of its motion (kinesis). Ex: a flying airplane.
- E. The tendency of an object to remain at rest if at rest, or, if moving, to keep moving in the same direction, unless acted upon by some outside force.

# - SOLUTION -

## Fifth Grade Science Warm - Up - Number 19

1. Read the triple balance that measures mass. Mark your answer on the grid.



1	9	0	.	4
0	0	<input checked="" type="radio"/>	0	0
<input checked="" type="radio"/>	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	<input checked="" type="radio"/>
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	<input checked="" type="radio"/>	9	9	9

2. Friction causes a rolling object to change its:

- A. Size
- B. Color
- C. Speed
- D. Mass

3. Which of the following is an example of thermal energy?

- A. Geothermal energy
- B. Kinetic energy
- C. Potential energy
- D. Chemical energy

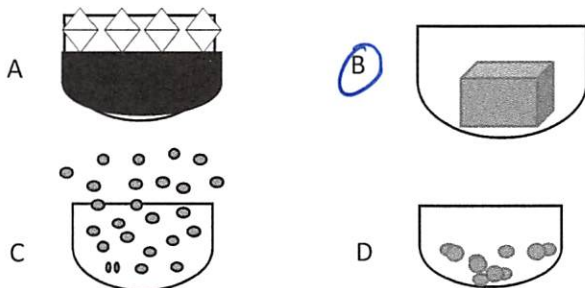
4. Which set of words below has the same meaning as the word **moving**?

- A. Inertia, still, rest, immobile, resistance
- B. Locomotion, motion, movement, kinetic, mobile
- C. Work, force, horsepower, donkey power
- D. Ounces, pounds, Kilograms, grams

2. The push or pull that can cause an object to be displaced or moved is called.

- A. Potential energy
- B. Kinetic energy
- C. Force
- D. Thrust

6. Which model best represents a solid?



7. Which of the following statements are true about Thermal Energy?

- A. The slower the molecules move, the more heat is transferred or given off.
- B. Slower moving molecules cause matter to change form.
- C. The faster the molecules move the more heat is transferred or given off.
- D. It is the same as potential and kinetic energy.

8. Match the correct word on the left with the definition or fact listed on the right.

D Potential Energy

B Kinetic Energy

A Inertia

E Friction

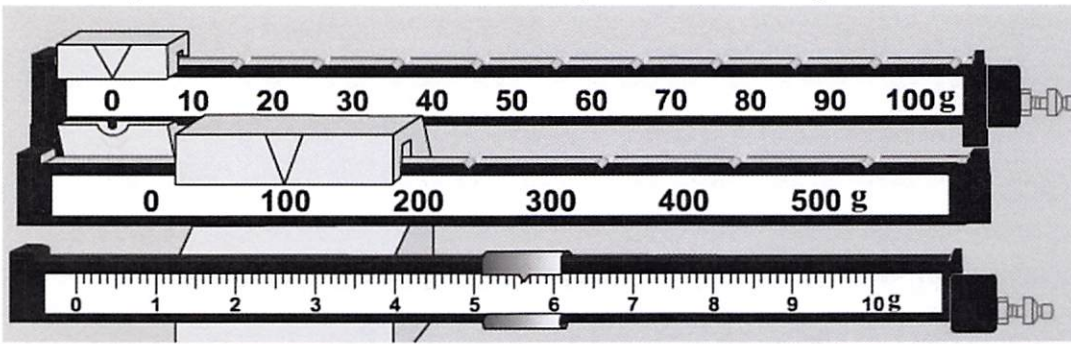
C Gravity

- A. The tendency of an object to stay at rest or remain in motion unless acted upon by another force.
- B. Energy associated with motion (Kinesis). Example: an airplane flying; a car driving down the street.
- C. A force that acts upon another object by pulling it towards it. (Example: The Sun holding the earth in orbit, and the earth holding the moon in orbit).
- D. Stored energy within an object or energy that an object has due to its position. (Ex: a boulder on the edge of a cliff, or a stick of dynamite).
- E. A force that resists motion between two objects that are in contact with each other.

# - SOLUTION -

## Fifth Grade Science Warm - Up - Number 20-TEST

1. Read the triple balance that measures mass. Mark your answer on the grid.



1	0	5	.	6
0	1	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

2. Joe was sleeping under an oak tree, when an acorn fell off the tree and landed on his head. What force caused the acorn to fall?

- A. Magnetism
- B. Friction
- C. Inertia
- D. Gravity

3. A student mixes a white powdery substance and a blue liquid. As soon as the substances come in contact, they begin to bubble, give off heat and finally cool off. What occurred?

- A. A physical reaction that is reversible.
- B. A chemical property.
- C. A chemical reaction and an irreversible chemical change.
- D. A behavioral change that is permanent.

4. Which force is the most responsible for a jet airplane speeding down the runway?

- A. Potential force
- B. Inertia
- C. Thrust ←
- D. Mechanical energy

5. Which of the following is an example of the release of thermal energy?

- A. A car engine left running in the parking lot.
- B. A soccer ball kicked with lots of force.
- C. Wind blowing.
- D. A large boulder sitting at the edge of a cliff.

6. A battery has what type of energy?

- A. Kinetic energy
- B. Geothermal energy
- C. Chemical energy
- D. Potential energy - stored

7. Lou rolls a 20 lbs <sup>steel</sup> ball across the gym floor, and then he rolls a small rubber ball across the same gym floor. Which statement is true?

- A. The steel ball has more inertia. - more mass
- B. The rubber ball has more inertia.
- C. The inertia is the same for both balls.
- D. None of the above statements is true.

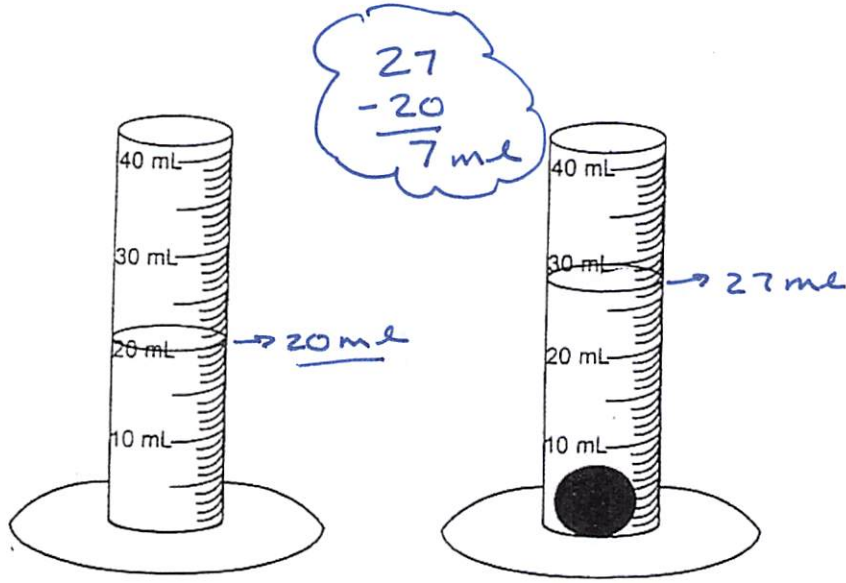
8. Match the correct word on the left with the definition or fact listed on the right.

- D Potential Energy
- B Kinetic Energy
- F Inertia
- E Friction
- C Gravity
- A Thermal Energy

- A. The kinetic energy of the movement of atoms and molecules in an object (it produces heat).
- B. Energy associated with motion (Kinesis). Example: an airplane flying; a car driving down the street.
- C. A force that acts upon another object by pulling it towards it. (Example: The Sun holding the earth in orbit, and the earth holding the moon in orbit).
- D. Stored energy within an object or energy that an objects has due to its position. (Ex: a boulder on the edge of a cliff, or a stick of dynamite).
- E. A force that resists motion between two objects that are in contact with each other.
- F. The tendency of an object to stay at rest or remain in motion unless acted upon by another force.

- SOLUTION -  
Fifth Grade Science Warm-up – Number 21

1.) What is the volume of the marble in the graduated cylinder? Mark your answer on the grid provided.



		7	.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2.) Which types of energy would the device shown to the right most likely produce?

- A.) magnetic and solar
- B.) solar and light
- C.) light and heat
- D.) light and sound



3.) The earth has three (3) main layers. Which layer is the thinnest and which layer is largest?

- A.) core and crust
- B.) core and mantle
- C.) crust and core
- D.) crust and mantle

4.) The Sun's gravitational field is very strong since it has an enormous mass. What is **true** about the earth and the sun, if the earth revolves around the sun?

- A.) The earth must be larger than the sun.
- B.) The earth is smaller than the sun.
- C.) The earth and the sun are the same size
- D.) Nothing can be said based on this information.

5.) Another name for the sun is \_\_\_\_\_, and another name for the moon is \_\_\_\_\_.

- A.) big ball of gas AND blue cheese.
- B.) solar AND Moonday
- C.) solar AND lunar
- D.) bright light AND lunar

6.) The type of energy created by the SUN is.....

- A.) solar energy
- B.) magnetic energy
- C.) electrical energy
- D.) chemical energy

7.) Which of the following is **NOT** a type of energy?

- A.) electrical
- B.) cold
- C.) solar
- D.) magnetic

8.) Match the correct definition or fact on the left with the definition given on the right.

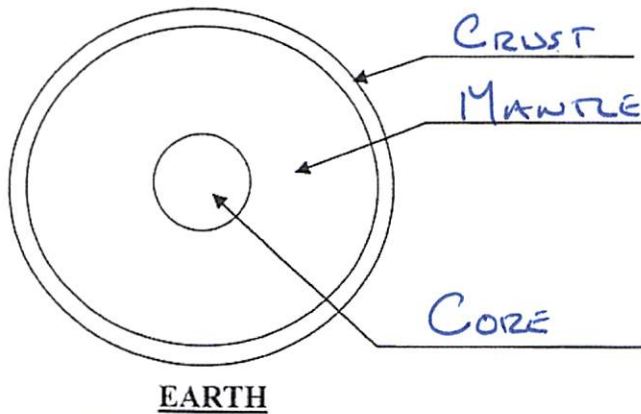
- |                            |  |
|----------------------------|--|
| <u>A</u> vibration         | A.) rapid back and forth motion of air or other matter                   |
| <u>D</u> frequency         | B.) energy that attracts metal objects                                   |
| <u>B</u> magnetic energy   | C.) energy carried by electrons and can produce heat, light, and motion. |
| <u>E</u> energy            | D.) the number of waves passing a point on second.                       |
| <u>C</u> electrical energy | E.) ability to do work   |



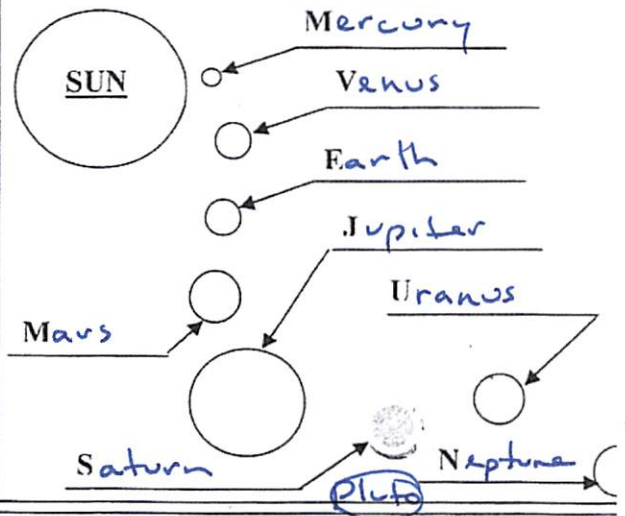
- SOLUTION -  
Fifth Grade Science Warm-up - Number 22

1.) Fill in the diagram using the following words:

Mantle      Crust      Core



2.) Name the 8 planets that **REVOLVE** around the SUN in our solar system.



3.) Which of the 3 layers of the Earth is the thinnest?

- A.) core
- B.) crust
- C.) mantle
- D.) plate tectonics

4.) We hear sound (or noise) when sound waves reach our \_\_\_\_\_.

- A.) disappear
- B.) form light rays
- C.) reach our ears
- D.) stop

5.) The Sun's gravitational field is very strong since it has an enormous mass. What is **true** about the earth and the sun, if the earth revolves around the sun?

- A.) The earth must be larger than the sun.
- B.) The earth is smaller than the sun.
- C.) The earth and the sun are the same size
- D.) Nothing can be said based on this information.

6.) Another name for the sun is solar, and another name for the moon is lunar. In outer space, there is NO sound.

- A.) lunar, solar, sound
- B.) solar, sound, lunar
- C.) solar, lunar, sound
- D.) sound, solar, lunar

7.) Sound or noise is transmitted by "D" in the air.

- A.) frequency
- B.) fire
- C.) light
- D.) vibrations (waves)

8.) Sound is a form of energy.

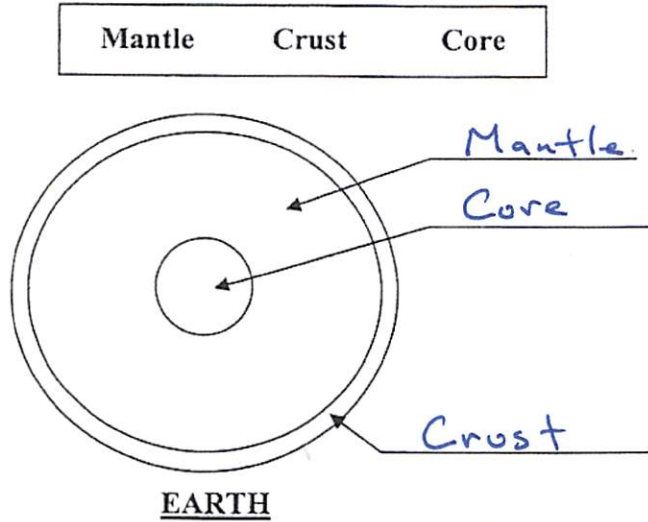
- A.) color
- B.) energy
- C.) rock
- D.) vibration

9.) Match the correct definition or fact on the left with the definition given on the right.

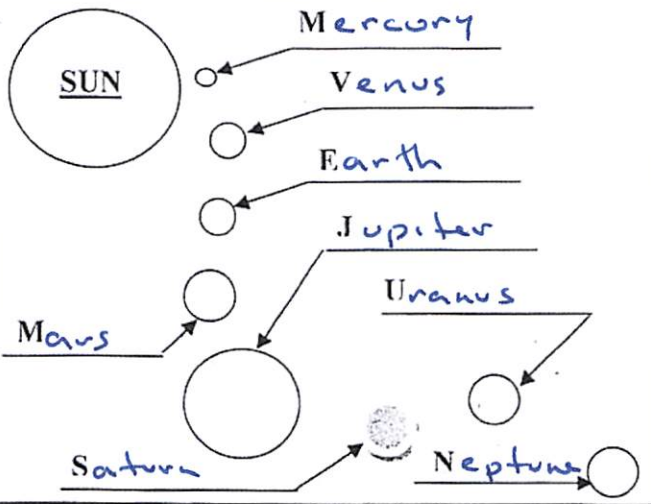
- |                            |  |
|----------------------------|--|
| <u>A</u> vibration         | A.) rapid back and forth motion of air or other matter                   |
| <u>I</u> refraction        | B.) energy that attracts metal objects                                   |
| <u>B</u> magnetic energy   | C.) energy carried by electrons and can produce heat, light, and motion. |
| <u>E</u> energy            | D.) the number of waves passing a point on second.                       |
| <u>C</u> electrical energy | E.) ability to do work   |
| <u>F</u> reflection        | F.) a light ray redirected upon itself ("Hey, I can see myself!")        |
| <u>D</u> frequency         | H.) something a person can see through like a clear object               |
| <u>H</u> transparent       | I.) the bending of light rays through a liquid or clear solid prism      |

- SOLUTION -  
**Fifth Grade Science Warm-up – Number 23**

1.) Fill in the diagram using the following words:



2.) Name the 8 planets that **REVOLVE** around the SUN in our solar system.



3.) Which of the 3 layers of the Earth is the largest?

- A.) core  
 B.) crust  
 C.) mantle  
 D.) plate tectonics

4.) When a stone is dropped in water, A move out from the source (where the stone enters the water). HINT: Think of how sound travels.

- A.) waves  
 B.) light  
 C.) mantle  
 D.) nothing

5.) Ms. Johnson looks at a rainbow and says to Aracelli, "What is causing the colors in the sky?"  
 (Note: *ROYGBIV*)

- A.) sunlight is refracted through raindrops.  
 B.) sunlight is absorbed by raindrops.  
 C.) sunlight is reflected by raindrops.  
 D.) sunlight bounces off raindrops.

6.) Barrack Obama goes to the moon and writes in the lunar dust, "I am the President of the U.S." 100 years later, this message is \_\_\_\_\_.

- A.) erased due to strong lunar winds.  
 B.) unchanged. The moon has no atmosphere.  
 C.) erased due to solar (sun) radiation.  
 D.) None of the above.

7.) Sound or noise is transmitted by \_\_\_\_\_ in the air.  
 (Note: *Is there sound/noise on the moon? WHY?*)

- A.) frequency  
 B.) fire  
 C.) light  
 D.) vibrations (waves)

8.) Light rays pass through all below **EXCEPT**...

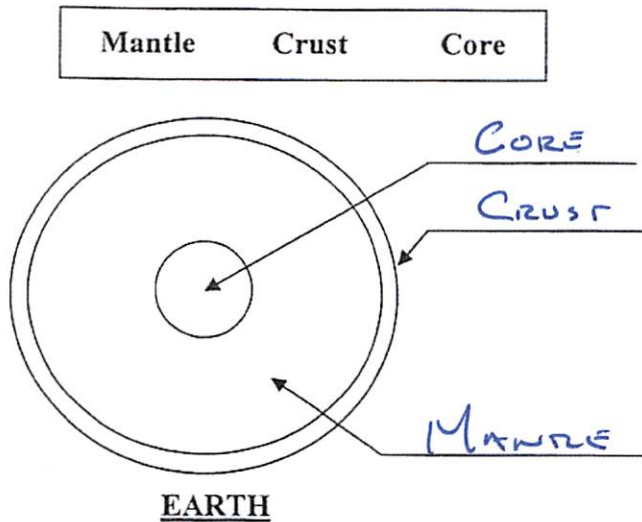
- A.) water droplets  
 B.) Earth's atmosphere  
 C.) a glass lens  
 D.) a tree trunk

9.) Match the correct definition or fact on the left with the definition given on the right.

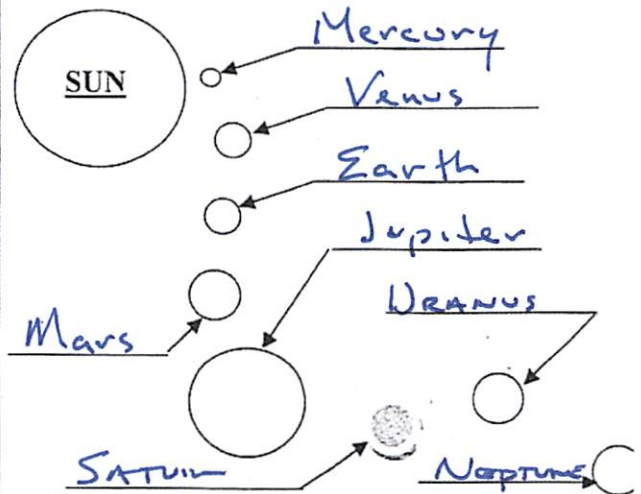
- |                            |  |
|----------------------------|--|
| <u>A</u> vibration         | A.) rapid back and forth motion of air or other matter                   |
| <u>F</u> refraction        | B.) energy that attracts metal objects                                   |
| <u>B</u> magnetic energy   | C.) energy carried by electrons and can produce heat, light, and motion. |
| <u>J</u> energy            | D.) the number of waves passing a point on second.                       |
| <u>C</u> electrical energy | E.) a starting point or where something begins                           |
| <u>F</u> reflection        | F.) a light ray redirected upon itself ("Hey, I can see myself!")        |
| <u>D</u> frequency         | H.) something a person can see through like a clear object               |
| <u>H</u> transparent       | I.) the bending of light rays through a liquid or clear solid prism      |
| <u>E</u> source            | J.) ability to do work (hopefully, usually work)                         |

- SOLUTION -  
**Fifth Grade Science Warm-up – Number 24**

1.) Fill in the diagram using the following words:



2.) Name the 8 planets that **REVOLVE** around the **SUN** in our solar system.



3.) Which of the 3 layers of the Earth is the **largest**?  
 Which of the 3 layers of the Earth is the **thinnest**?  
 Which of the 3 layers is at the center of the Earth?

- A.) core, crust, mantle      **C.) mantle, crust, core**  
 B.) mantle, core, crust      D.) none of the above

4.) What of the following happens on Earth but **NOT** on the moon because the moon does not have an atmosphere? (THINK!)

- A.) gravity only      C.) sound and gravity  
 B.) erosion only      **D.) sound and erosion**

5.) Dr. Belli is wearing a red shirt. That means all colors **ROYGBIV except** red are **absorbed** into the shirt and the red wave is \_\_\_\_\_ to our eyes.

- A.) refracted  
**B.) reflected**  
 C.) refracted AND reflected  
 D.) a learned behavior

6.) Which is **OLDER**? The pointed cliffs of the Rocky Mountains or the smooth, rounded peaks of the Appalachian Mountains? **WHY**

- A.) Rocky Mountains. Friction effects.  
**B.) Rocky Mountains. Erosion effects.**  
 C.) Appalachian Mountains. Friction effects  
**D.) Appalachian Mountains. Large erosion effects.**

7.) The Earth's gravitational field pulls a meteor to Earth. But, what causes the flame or burning as the meteor enters the Earth's atmosphere?

- A.) gravity      C.) thrust  
**B.) friction - with the atmosphere**  
 D.) inertia

8.) A straw is placed in a glass of water. The straw appears bent in the water. This is due to \_\_\_\_\_ of light rays in the water

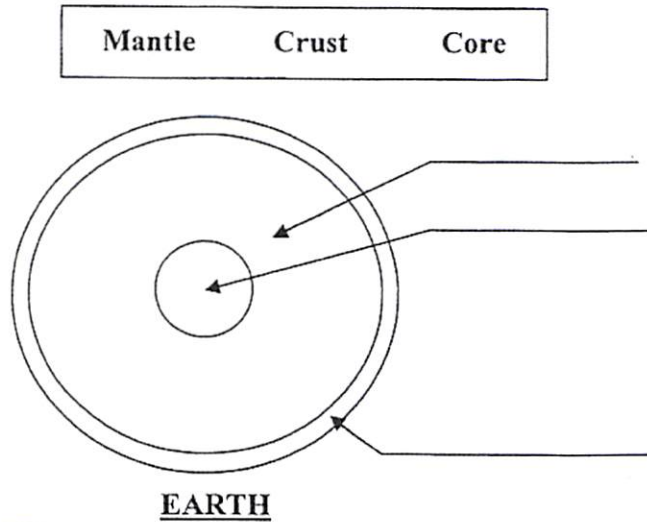
- A.) reflection      **C.) refraction**  
 B.) learned behavior      D.) gravity

9.) Match the correct definition or fact on the left with the definition given on the right.

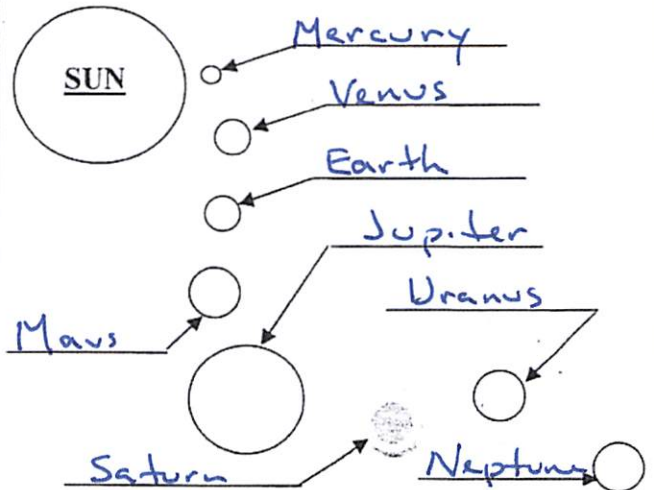
- |                            |   |
|----------------------------|---|
| <u>H</u> concave lens      | A.) a clear plastic or glass shaped lens that bends light <b>INWARD</b> . |
| <u>I</u> refraction        | B.) material that absorbs all light. (I can't see through this object!)   |
| <u>B</u> opaque            | C.) energy carried by electrons and can produce heat, light, and motion.  |
| <u>J</u> energy            | D.) a clear (translucent) object that breaks visible light into ROYGBIV.  |
| <u>C</u> electrical energy | E.) a starting point or where something begins                            |
| <u>F</u> reflection        | F.) a light ray redirected upon itself ("Hey, I can see myself!")         |
| <u>D</u> prism             | H.) a clear plastic or glass shaped lens that bends light <b>OUTWARD</b>  |
| <u>A</u> convex lens       | I.) the bending of light rays through a liquid or clear solid prism       |
| <u>E</u> source            | J.) ability to do work (hopefully, usually work)                          |

# Fifth Grade Science Warm-up - Number 25 - WEEKLY TEST

1.) Fill in the diagram using the following words:



2.) Name the 8 planets that **REVOLVE** around the **SUN** in our solar system.



3.) Which of the 3 layers of the Earth is the **thinnest**?  
Which of the 3 layers of the Earth is the **largest**?  
Which of the 3 layers is at the center of the Earth?

- A.) core, crust, mantle      C.) mantle, crust, core  
 B.) crust, mantle, core      D.) none of the above

4.) What of the following happens on Earth but **NOT** on the moon because the moon does not have an atmosphere? (*THINK - atmosphere!*)

- A.) gravity only      C.) sound and gravity  
 B.) erosion only      D.) sound and erosion

5.) Jesus is wearing a blue shirt. That means all colors **ROYGBIV except** blue are **absorbed** into the shirt and the blue wave is \_\_\_\_\_ to our eyes.

- A.) refracted  
 B.) reflected  
 C.) refracted AND reflected  
 D.) unexpected

6.) Which is **YOUNGER**? The **pointed** cliffs of the Rocky Mountains or the **smooth, rounded** peaks of the Appalachian Mountains? **WHY?**

- A.) Rocky Mountains. Small friction effects.  
 B.) Rocky Mountains. Small erosion effects.  
 C.) Appalachian Mountains. Friction effects  
 D.) Appalachian Mountains. Erosion effects.

7.) The Earth's gravitational field pulls a meteor to Earth. But, what causes the flame or burning as the meteor enters the Earth's atmosphere?

- A.) gravity      C.) thrust  
 B.) friction      D.) inertia

8.) A pencil is placed in a glass of water. The pencil appears bent in the water. This is due to \_\_\_\_\_ of light rays in the water.

- A.) reflection       C.) refraction  
 B.) learned behavior      D.) gravity

9.) Match the correct definition or fact on the left with the definition given on the right.

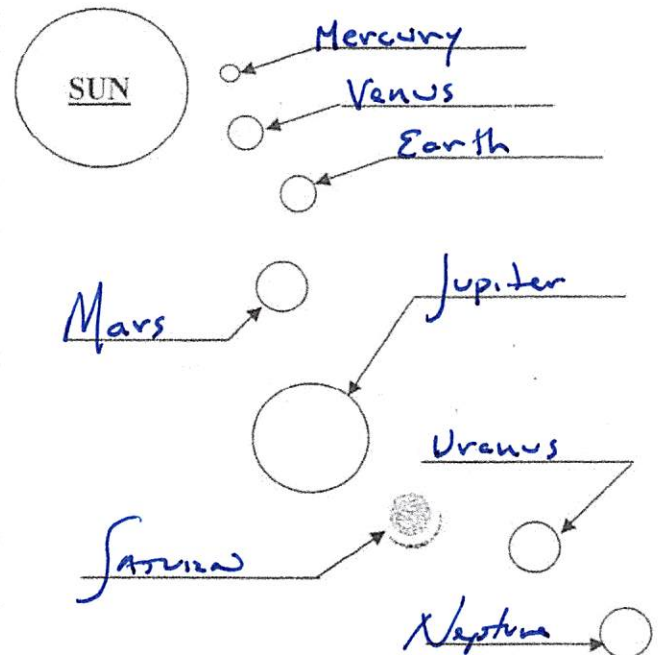
- |                            |   |
|----------------------------|---|
| <u>H</u> concave lens      | A.) a clear plastic or glass shaped lens that bends light <b>INWARD</b> . |
| <u>F</u> refraction        | B.) material that absorbs all light. (I can't see through this object!)   |
| <u>B</u> opaque            | C.) energy carried by electrons and can produce heat, light, and motion.  |
| <u>J</u> energy            | D.) a clear (translucent) object that breaks visible light into ROYGBIV.  |
| <u>C</u> electrical energy | E.) a starting point or where something begins                            |
| <u>F</u> reflection        | F.) a light ray redirected upon itself ("Hey, I can see myself!")         |
| <u>D</u> prism             | H.) a clear plastic or glass shaped lens that bends light <b>OUTWARD</b>  |
| <u>A</u> convex lens       | I.) the bending of light rays through a liquid or clear solid prism       |
| <u>E</u> source            | J.) ability to do work (hopefully, usually work)                          |

- SOLUTIONS -  
**Fifth Grade Science Warm-up – Number 26**

1.) Circle all **TRUE** statements about the SUN below:

- Another name for the sun is solar
  - The Sun is made of water
- The Sun is made of gas
- The Earth is about 95 million miles from the Sun
  - It is a good idea to look at the Sun during the day.
- The most common gases on the Sun are Hydrogen and Helium. Hydrogen is "H" and Helium is "He."
- It takes the Sun's radiant energy between 6 to 8 minutes to reach Earth from the surface of the Sun.
  - The moon is bigger than the Sun.
- The Sun is the nearest star to Earth.
- The Sun is at the center of the solar system.
  - Planets rotate around the Sun
- Planets revolve around the Sun.
- The Sun is so large that its enormous mass and gravity keep the planets in motion around it.
  - About 100 Earths would fit inside the Sun.
- About 1,000,000 Earths would fit inside the Sun.

2.) Name the 8 planets that **REVOLVE** around the SUN in our solar system.



3.) Which of these objects would **refract** (bend) light?

- |               |   |
|---------------|---|
| A.) camera    | C.) eyeglasses  |
| B.) telescope | <input checked="" type="radio"/> D.) all of the above |

4.) Sound moves **MOST** slowly through \_\_\_\_\_

- |  |                                    |
|--|------------------------------------|
| A.) a solid                                | C.) a liquid                       |
| <input checked="" type="radio"/> B.) a gas | D.) on the moon<br><i>No sound</i> |

5.) Why does a person wear eyeglasses? Note: the eye is a **CONVEX** lens.

- A.) To correct the refraction problems of the eye lens
- B.) To make a person look older and cool looking
- C.) To correct the reflection problems of the eye lens
- D.) None of the above

6.) It takes 365  $\frac{1}{4}$  days for the Earth to Revolve around the Sun. But, it takes 24 hours for the Earth to make one complete rotation.

- A.) rotate, 24, revolution
- B.) revolve, 24, revolution
- C.) revolve, 24, rotation
- D.) None of the above.

7.) What two types of **energy** are released by a light bulb?

- |  |                       |
|--|-----------------------|
| <input checked="" type="radio"/> A.) heat and radiant energy | C.) sound and kinetic |
| B.) potential and kinetic                                    | D.) None of these     |

8.) The Sun is mainly made of these types of **gas**.

- |   |                   |
|---|-------------------|
| A.) Hydrogen, Oxygen                                  | C.) Water, Air    |
| <input checked="" type="radio"/> B.) Hydrogen, Helium | D.) None of these |

9.) Match the correct definition or fact on the left with the definition given on the right.

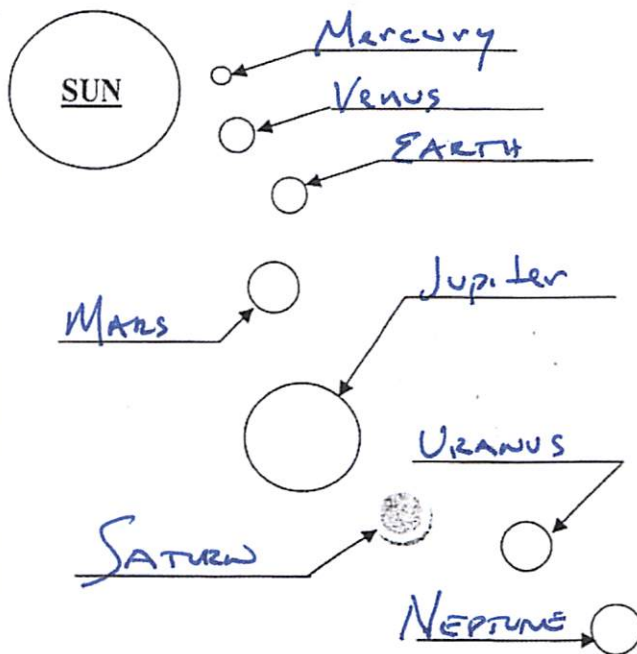
- |                         |   |
|-------------------------|---|
| <u>C</u> crust          | A.) to make smaller; decline; decrease  |
| <u>B</u> core           | B.) the center part of the Earth  |
| <u>D</u> mantle         | C.) the top layer of the Earth  |
| <u>E</u> atmosphere     | D.) the middle layer of the Earth   |
| <u>A</u> reduce         | E.) the layer of gases that surrounds the Earth and contains the clouds       |
| <u>G</u> radiant energy | G.) Energy from any light source (the Sun, a lightbulb, a street light, etc.) |

- Solution -  
**Fifth Grade Science Warm-up – Number 27**

1.) Circle all TRUE statements about the SUN below:

- Another name for the sun is solar.
- The Sun is made of water.
- All life on Earth is possible due to the Sun's energy.
- The Earth is about 95 million miles from the Sun
- It is a good idea to look at the Sun during the day.
- The most common gases on the Sun are Hydrogen and Helium. Hydrogen is "H" and Helium is "He."
- It takes the Sun's radiant energy between 6 to 8 minutes to reach Earth from the surface of the Sun.
  - Jupiter is bigger than the Sun.
- The Sun is the nearest star to Earth.
- The Sun is at the center of the solar system.
  - Planets rotate around the Sun
  - Planets revolve around the Sun.
- The Sun is so large that its enormous mass and gravity keep the planets in motion around it.
- The Sun is just another star lighting up the Universe.
- About 1,000,000 Earths would fit inside the Sun.

2.) Name the 8 planets that REVOLVE around the SUN in our solar system.



3.) What is the shape of a planet's ORBIT around the Sun?

- |   |                 |
|---|-----------------|
| A.) perfect circle  | C.) rectangular |
| <input checked="" type="radio"/> B.) an ellipse (egg shape) | D.) triangular  |

4.) Sound moves MOST slowly through \_\_\_\_\_.

- SOLID - FASTEST
- |  |                 |
|--|-----------------|
| A.) a solid                                | C.) a liquid    |
| <input checked="" type="radio"/> B.) a gas | D.) on the moon |

5.) A young fifth grader observes a rainbow. He decides to ask Jennifer, a promising young scientist at Graham Elementary, what causes rainbows. What is her answer?

- A.) Sunlight is refracted through clouds.
- B.) Sunlight is reflected through clouds.
- C.) Sunlight is refracted through raindrops.
- D.) Sunlight is reflected through raindrops

6.) The Earth \_\_\_\_\_ around the Sun, and the Earth makes one complete \_\_\_\_\_ in 365 ¼ \_\_\_\_\_ or one year.

- A.) rotates, rotations, weeks
- B.) revolves, revolution, days
- C.) rotates, rotation, months
- D.) None of the above.

7.) What type(s) of energy is released by a fire?

- |  |                       |
|--|-----------------------|
| <input checked="" type="radio"/> A.) heat and radiant energy | C.) sound and kinetic |
| B.) potential and kinetic                                    | D.) None of these     |

8.) The Sun is mainly made of these types of gases.

- |   |                   |
|---|-------------------|
| A.) Hydrogen, Oxygen                                  | C.) Water, Air    |
| <input checked="" type="radio"/> B.) Hydrogen, Helium | D.) None of these |

9.) Match the correct definition or fact on the left with the definition given on the right.

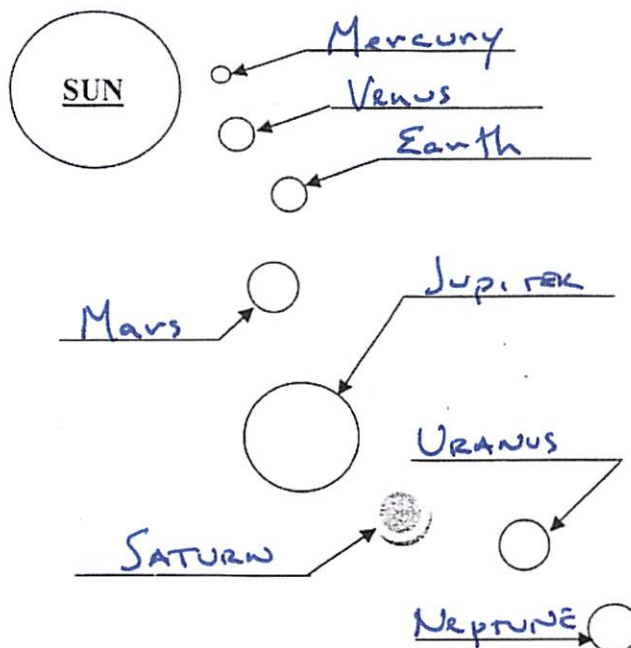
- |                         |  |
|-------------------------|--|
| <u>C</u> crust          | A.) to make smaller; decline; decrease   |
| <u>B</u> core           | B.) the center part of the Earth   |
| <u>D</u> mantle         | C.) the top layer of the Earth   |
| <u>E</u> atmosphere     | D.) the middle layer of the Earth  |
| <u>A</u> reduce         | E.) the layer of gases that surrounds the Earth and contains the clouds        |
| <u>G</u> radiant energy | G.) Energy from any light source (the Sun, a light bulb, a street light, etc.) |

# Fifth Grade Science Warm-up - Number 28

1.) Circle all **TRUE** statements about the SUN below:

- Another name for the sun is lunar.
- The Sun is made of gases.
- All life on Earth is possible due to the Sun's energy.
- The Earth is about 95 million miles from the Sun
  - It is a bad idea to look at the Sun during the day.
- The most common gases on the Sun are Hydrogen and Helium. Hydrogen is "H" and Helium is "He."
- It takes the Sun's radiant energy between 6 to 8 minutes to reach Earth from the surface of the Sun.
- The Sun is bigger than the Jupiter.
- The Sun is the nearest star to Earth.
- The Sun is at the center of the solar system.
- Planets revolve around the Sun
  - Planets rotate around the Sun.
- The Sun is so large that its enormous mass and gravity keep the planets in motion around it.
- The Sun is just another star lighting up the Universe.
  - About 10 Moons would fit inside the Sun.

2.) Name the 8 planets that **REVOLVE** around the **SUN** in our solar system.



3.) What is the shape of a planet's **ORBIT** around the Sun?

- A.) perfect circle
- B.) an ellipse (egg or oval shape)
- C.) rectangular
- D.) triangular

4.) What object has **no** erosion or weathering?

- A.) Earth
- B.) continents
- C.) oceans
- D.) the Moon

5.) A young fifth grader observes a rainbow. He decides to ask Jennifer, a promising young scientist at Graham Elementary, what causes rainbows. What is her answer?

- A.) Sunlight is refracted through clouds.
- B.) Sunlight is reflected through clouds.
- C.) Sunlight is refracted through raindrops.
- D.) Sunlight is reflected through raindrops

6.) The Earth \_\_\_\_\_ around the Sun, and the Earth makes one complete \_\_\_\_\_ in 24 \_\_\_\_\_ or one day.

- A.) rotates, rotations, weeks
- B.) revolves, revolution, days
- C.) revolves, rotation, hours
- D.) None of the above.

7.) What type(s) of energy is released by a light bulb?

- A.) heat and radiant energy
- B.) potential and kinetic
- C.) sound and kinetic
- D.) None of these

8.) The Sun is mainly made of these types of **gases**

- A.) Hydrogen, Oxygen
- B.) Hydrogen, Helium
- C.) Water, Air
- D.) None of these

9.) Match the correct definition or fact on the left with the definition given on the right.

- C plate tectonics
- B lithosphere
- D plate
- E atmosphere
- A hydrosphere
- G radiant energy

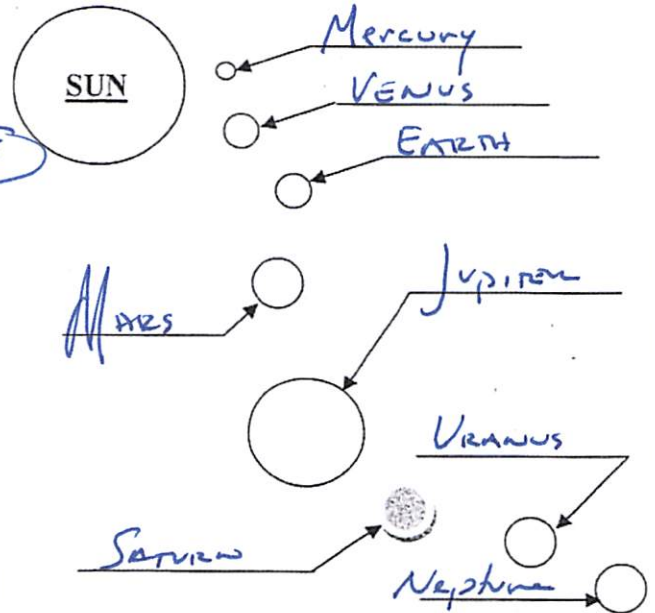
- A.) the **water** part of the Earth's surface
- B.) the rigid outer shell of the Earth's surface
- C.) a theory stating that the Earth's surface is broken into plates that move.
- D.) a large section of the Earth's surface made of crust and the rigid top part of the Earth's mantle.
- E.) the layer of gases that surrounds the Earth and contains the clouds
- G.) Energy from any light source (the Sun, a light bulb, a street light, etc.)

- SOLUTION -  
**Fifth Grade Science Warm-up – Number 29**

1.) Circle all **TRUE** statements about the **Moon** and **Sun**:

- Another name for the Sun is solar.
- Another name for the MOON is lunar.
- The MOON is made of Rocks and Dust..
- The Moon revolves around the Earth.
- The Moon is about 250,000 miles from the Earth.
- It is a bad idea to look at the Moon at night. **FALSE**
- The most common gases on the Sun are Hydrogen and Helium. Hydrogen is "H" and Helium is "He."
- It takes the Sun's radiant energy between 6 to 8 minutes to reach Earth from the surface of the Sun.
- The Moon's surface doesn't change.
- The Sun is the nearest star to Earth.
- The Sun is at the center of the solar system.
- Planets revolve around the Sun
- The Sun is so large that its enormous mass and gravity keep the planets in motion around it.
- The Sun is just another star lighting up the Universe.
- All life on Earth is possible from the Sun's energy.
- Since the Moon has no atmosphere, it has no erosion.

2.) Name the 8 planets that **REVOLVE** around the **SUN** in our solar system.



3.) The shape of the Earth is most like a \_\_\_\_\_.

- A.) rectangular prism
- B.) sphere
- C.) triangular prism
- D.) cube

4.) The hottest part of the Earth is the \_\_\_\_\_.

- A.) Mantle
- B.) Continents
- C.) Core
- D.) Crust

5.) One way the Earth is different from the Moon is \_\_\_\_\_.

- A.) The erosion on the Moon is more than on Earth.
- B.) Both the Moon and the Earth have an atmosphere.
- C.) The Earth has an atmosphere, and the moon doesn't
- D.) The Earth has rocks and the moon doesn't.

6.) The Earth \_\_\_\_\_ around the Sun, and the Earth makes one complete \_\_\_\_\_ in 24 \_\_\_\_\_ or one day.

- A.) rotates, rotations, weeks
- B.) revolves, revolution, days
- C.) revolves, rotation, hours
- D.) None of the above.

7.) What type(s) of energy is released by a street light?

- A.) heat and radiant energy
- B.) potential and kinetic
- C.) sound and kinetic
- D.) None of these

8.) The **Moon** is mostly made out of \_\_\_\_\_.

- A.) rocks & dirt/dust
- B.) gases
- C.) Water
- D.) Rain Forests

9.) Match the correct word or fact on the left with the definition given on the right.

- C plate tectonics
- B lithosphere
- D plate
- E weathering
- A hydrosphere
- G erosion

- A.) the **water** part of the Earth's surface
- B.) the rigid outer shell of the Earth's surface
- C.) a theory stating that the Earth's surface is broken into plates that move.
- D.) a large section of the Earth's surface made of crust and the rigid top part of the Earth's mantle.
- E.) the process of breaking down rocks from ice, water, chemicals, or air.
- G.) the movement of weathered rock and soil due to water, wind, or gravity.

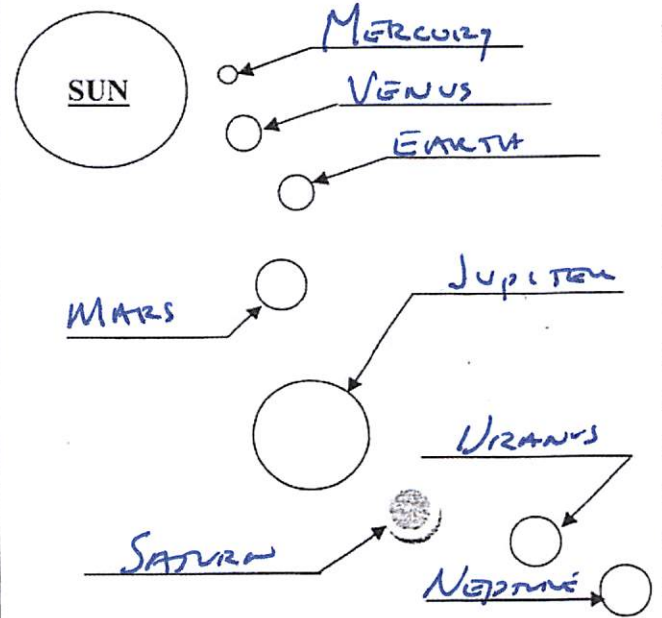


# Fifth Grade Science Warm-up – Number 30 – Weekly Test

1.) Circle all **TRUE** statements about the **Moon** and **Sun**:

- Since the Moon has no atmosphere, it has no erosion.
- The Sun is just another star lighting up the Universe.
- Another name for the MOON is lunar.
- The MOON is made of Rocks and Dust..
- The Moon revolves around the Earth.
- The Moon is about 250,000 miles from the Earth
  - It is a bad idea to look at the Moon at night.
- The most common gases on the Sun are Hydrogen and Helium. Hydrogen is "H" and Helium is "He."
- It takes the Sun's radiant energy between 6 to 8 minutes to reach Earth from the surface of the Sun.
- The Moon's surface doesn't change.
- The Sun is the nearest star to Earth.
- The Sun is at the center of the solar system.
- Planets revolve around the Sun
- Another name for the Sun is solar.
- The Sun is so large that its enormous mass and gravity keep the planets in motion around it.
- All life on Earth is possible from the Sun's energy.

2.) Name the 8 planets that **REVOLVE** around the **SUN** in our solar system.



3.) The shape of the Earth is most like a \_\_\_\_\_.

- A.) rectangular prism      C.) triangular prism  
 B.) sphere                      D.) cube

4.) The hottest part of the Earth is the \_\_\_\_\_.

- A.) Mantle                                       C.) Core  
 B.) Continents                                D.) Crust

5.) One way the Earth is different from the Moon is \_\_\_\_\_.

- A.) The erosion on the Moon is more than on Earth.  
 B.) Both the Moon and the Earth have an atmosphere.  
 C.) The Earth has an atmosphere, and the moon doesn't.  
 D.) The Earth has rocks and the moon doesn't.

6.) The Earth \_\_\_\_\_ around the Sun, and the Earth makes one complete \_\_\_\_\_ in 24 \_\_\_\_\_ or one day.

- A.) rotates, rotations, weeks  
 B.) revolves, revolution, days  
 C.) revolves, rotation, hours  
 D.) None of the above.

7.) What type(s) of energy is released by a street light?

- A.) heat and radiant energy      C.) sound and kinetic  
 B.) potential and kinetic            D.) None of these

8.) The **Moon** is mostly made out of \_\_\_\_\_.

- A.) rocks    C.) Water  
 B.) gases  $H + He$                               D.) Rain Forests

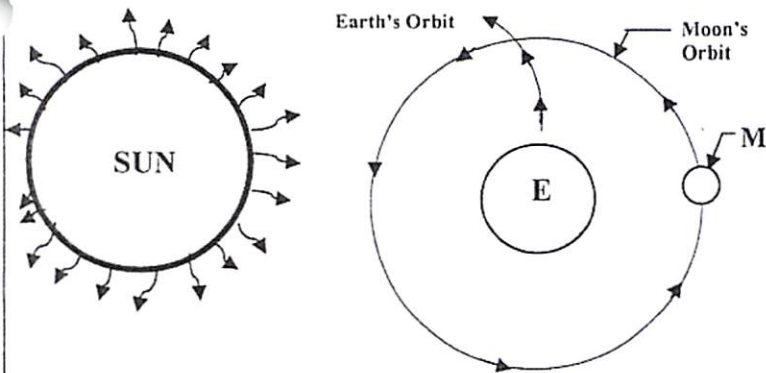
9.) Match the correct word or fact on the left with the definition given on the right.

- C plate tectonics
- B lithosphere
- D plate
- E weathering
- A hydrosphere
- G erosion

- A.) the **water** part of the Earth's surface
- B.) the rigid outer shell of the Earth's surface
- C.) a theory stating that the Earth's surface is broken into plates that move.
- D.) a large section of the Earth's surface made of crust and the rigid top part of the Earth's mantle.
- E.) the process of breaking down rocks from ice, water, chemicals, or air.
- G.) the movement of weathered rock and soil due to water, wind, or gravity.

- SOLUTIONS -  
**Fifth Grade Science Warm-up – Number 31**

1.) What type of ECLIPSE is happening? **Solar** or **Lunar**.  
 (Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?

Earth blocks Moon                      LUNAR ECLIPSE

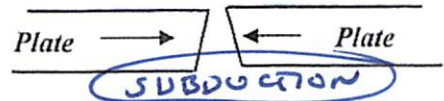
Fill in the blank on other information you should know:

The Earth is 95 million miles from the Sun. The moon is 250 thousand miles from Earth. There is no erosion or weathering of rocks on the moon since it has no Atmosphere.

2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

A.) Plate Tectonic situation number 1:



What is formed from the collision of the two continental plates shown above?

MOUNTAIN

B.) Plate tectonic situation number 2:



What is formed from the separation of the two continental plates shown above?

TRENCH

3.) If Ernesto digs a hole, the deeper he tunnels into the Earth the \_\_\_\_\_ soil and rock he will find.

- A.) older                      C.) all soil is the same age  
 B.) younger                D.) he will find a rainbow

4.) What type of energy does a moving car have?

- A.) potential                      C.) radiant  
 B.) kinetic                        D.) wind

5.) Sandy beaches are formed when \_\_\_\_\_

Deposition of SAND  
On Beaches

- A.) Ocean animals carried the sand to the beaches.  
 B.) Lightning struck the rock repeatedly breaking it.  
 C.) Strong winds deposited the sand to the shore.  
 D.) Ocean waves weathered and break down rocks.

6.) Plate movements in the system known as plate tectonics in the Earth's crust and mantle cause all the following EXCEPT \_\_\_\_\_.

NOT

- A.) earthquakes  
 B.) electricity  
 C.) trenches in the ocean  
 D.) mountains and mountain ranges

7.) If I wax my kitchen floor to a brilliant, smooth shine, I reduce the \_\_\_\_\_ when I slide or walk on the floor.

- A.) gravity                      C.) friction  
 B.) thrust                        D.) None of these

8.) What type of material is found at deltas due to the river carrying it downstream?

- A.) glacial deposits                      C.) big rocks  
 B.) sedimentary (sand) deposits    D.) dead fish

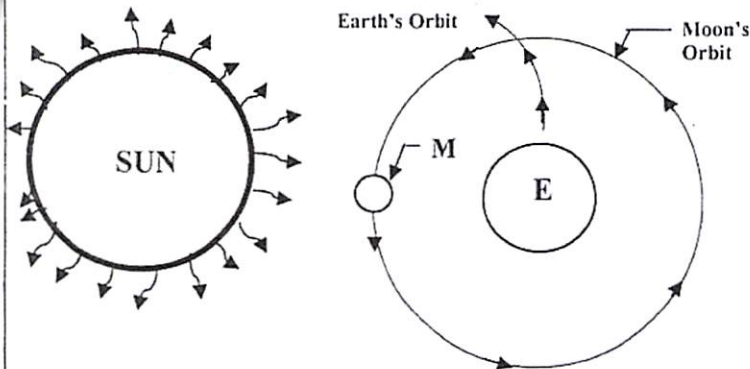
9.) Match the correct word or fact on the left with the definition given on the right.

- B weathering  
A erosion  
D rock cycle  
C mineral(s)  
H igneous rock  
E sedimentary rock  
G metamorphic rock

- A.) the movement of weathered rock due to wind, water, or gravity  
 B.) the process that breaks down and changes rock  
 C.) natural, nonliving solids that combine to form what we call rocks  
 D.) the way the rock changes from one type to another.  
 E.) Rock formed due to the deposition of sediments and compacted  
 G.) Rock formed due to pressure and heat in the Earth's lithosphere  
 H.) Rock formed near volcanoes due to the heat and quick cooling

*- SOLUTIONS -*  
**Fifth Grade Science Warm-up – Number 32**

1.) What type of ECLIPSE is happening? **Solar** or **Lunar**.  
 (Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?

Solar Eclipse

Fill in the blank on other information you should know:

The Earth Revolves around the Sun. The Earth Rotates on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no Atmosphere

2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

A.) Plate Tectonic situation number 1:



What is formed from the collision of the two continental plates shown above?

Mountain

B.) Plate tectonic situation number 2:



What is formed from the separation of the two continental plates shown above?

TRENCH

3.) In order to build a large building, a large hole must be dug. The \_\_\_\_\_ is located **nearest** the surface.

- A.) older rock                      C.) rock is the same age  
 B.) younger rock                  D.) more beautiful rock

4.) What type of energy best describes the water that is STORED behind the dam?

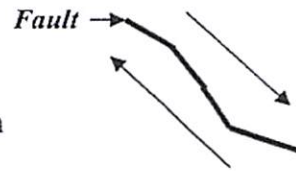
- A.) potential                              C.) radiant  
 B.) kinetic                                  D.) wind

5.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.

- A.) sedimentary, metamorphic, igneous  
 B.) igneous, metamorphic, sedimentary  
 C.) igneous, sedimentary, metamorphic  
 D.) erosion, gravity, weathering

6.) California has the famous San Andreas Fault. What is formed when one continental **plate** moves in the opposite direction to the other?

- A.) an earthquake  
 B.) electricity  
 C.) trench in the ocean  
 D.) a mountain



7.) As a meteor enters the Earth's atmosphere, \_\_\_\_\_ is pulling it towards Earth, and the flame is due to \_\_\_\_\_.

- A.) gravity, thrust                       C.) gravity, friction  
 B.) thrust, gravity                      D.) None of these

8.) What type of material is deposited at river deltas due to the river carrying it downstream?

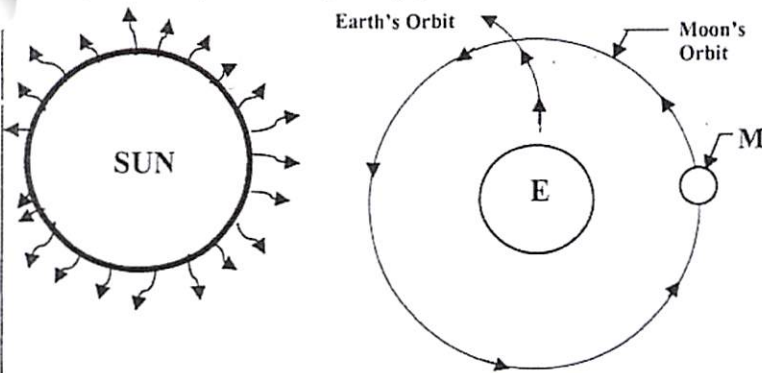
- A.) glacial deposits                      C.) big rocks  
 B.) sedimentary (sand) deposits      D.) dead fish

9.) Match the correct word or fact on the left with the definition given on the right.

- |                           |   |
|---------------------------|---|
| <u>B</u> fossil fuel      | A.) the movement of weathered rock due to wind, water, or gravity           |
| <u>A</u> erosion          | B.) a fuel formed over many years from living organisms (coal, natural gas) |
| <u>D</u> rock cycle       | C.) natural, nonliving solids that combine to form what we call rocks       |
| <u>C</u> mineral(s)       | D.) the way the rock changes from one type to another.                      |
| <u>H</u> igneous rock     | E.) Rock formed due to the <u>deposition</u> of sediments and compacted     |
| <u>E</u> sedimentary rock | G.) Rock formed due to pressure and heat in the Earth's lithosphere         |
| <u>G</u> metamorphic rock | H.) Rock formed near volcanoes due to the heat and quick cooling            |

- SOLUTION -  
**Fifth Grade Science Warm-up – Number 33**

1.) What type of ECLIPSE is happening? **Solar** or **Lunar**.  
 (Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?

LUNAR ECLIPSE

Fill in the blank on other information you should know:

The Earth Revolves around the Sun. The Earth Rotates on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no Atmosphere.

2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

A.) Plate Tectonic situation number 1:



What is formed from the collision of the two continental plates shown above?

MOUNTAIN

B.) Plate tectonic situation number 2:



What is formed from the separation of the two continental plates shown above?

TRENCH

3.) If Gustavo digs a hole, the deeper he tunnels into the Earth the \_\_\_\_\_ soil and rock he will find.

- A.) older                      C.) all soil is the same age  
 B.) younger                 D.) he will find a rainbow

4.) Glaciers are formed when \_\_\_\_\_.  
**Fact:** A 2 mile thick glacier formed the 5 Great Lakes!

- A.) it snows all winter then a rainbow is seen  
 B.) it snows over and over again for many years

5.) Sandy beaches are formed when \_\_\_\_\_

Deposition of sand.

- A.) Ocean animals carried the sand to the beaches.  
 B.) Lightning struck the rock repeatedly breaking it.  
 C.) Strong winds deposited the sand to the shore.  
 D.) Ocean waves weathered and break down rocks.

6.) Plate movements in the system known as plate tectonics in the Earth's crust and mantle cause all the following EXCEPT \_\_\_\_\_.

- A.) earthquakes  
 B.) sedimentary rock  
 C.) trenches in the ocean  
 D.) mountains and mountain ranges

7.) A dust cloud appears near Lubbock, Texas. This is evidence of \_\_\_\_\_.

- A.) deposits of sediment    C.) weathering by wind  
 B.) soil erosion by wind    D.) weathering by plants

8.) What type of material is found at deltas due to the river carrying it downstream?

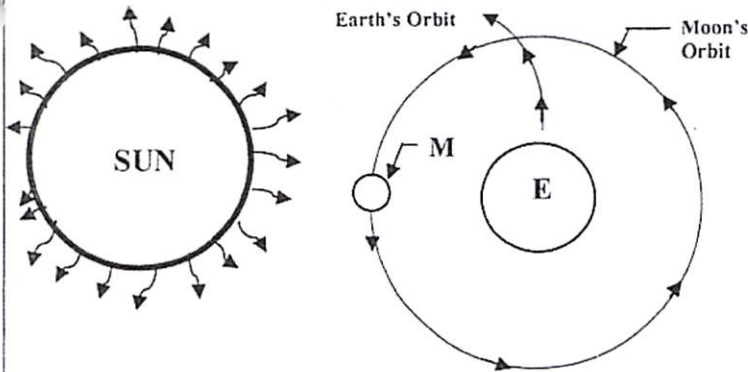
- A.) glacial deposits                      C.) big rocks  
 B.) sedimentary (sand) deposits    D.) dead fish

9.) Match the correct word or fact on the left with the definition given on the right.

- |                                  |   |
|----------------------------------|---|
| <u>C</u> fossil fuel             | A.) a resource that can be replaced within a short period of time (trees, fish) |
| <u>B</u> deposition              | B.) the dropping of materials (like small rocks) due to water or erosion        |
| <u>D</u> inexhaustible resources | C.) a fuel formed over many years from living organisms (coal, natural gas)     |
| <u>A</u> renewable resource      | D.) resources that CANNOT be used up (wind, sunlight)                           |
| <u>H</u> igneous rock            | E.) Rock formed due to the <u>deposition</u> of sediments and compacted         |
| <u>E</u> sedimentary rock        | G.) Rock formed due to pressure and heat in the Earth's lithosphere             |
| <u>G</u> metamorphic rock        | H.) Rock formed near volcanoes due to the heat and quick cooling of lava.       |

- SOLUTION -  
**Fifth Grade Science Warm-up – Number 34**

- 1.) What type of ECLIPSE is happening? **Solar** or **Lunar**.  
 (Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?

SOLAR ECLIPSE

Fill in the blank on other information you should know:

The Earth Revolves around the Sun. The Earth Rotates on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no Atmosphere

- 2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

- A.) Plate Tectonic situation number 1:



What is formed from the separation of the two continental plates shown above?

TRENCH

- B.) Plate tectonic situation number 2:



What is formed from the collision of the two continental plates shown above?

MOUNTAIN

- 3.) In order to build a large building, a large hole must be dug. The \_\_\_\_\_ is located **farthest** from the surface.

- A.) older rock                      C.) all rock is the same age  
 B.) younger rock                D.) more beautiful rock

- 4.) What is a Glacier?

- A.) a slab of concrete                      C.) wind  
 B.) a thick sheet of snow and ice        D.) ice cream

- 5.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.

- A.) sedimentary, metamorphic, igneous  
 B.) igneous, metamorphic, sedimentary  
 C.) igneous, sedimentary, metamorphic  
 D.) erosion, gravity, weathering

- 6.) California has the famous San Andreas Fault. What is formed when one continental **plate** moves in the opposite direction to the other?

- A.) an earthquake  
 B.) electricity  
 C.) trench in the ocean  
 D.) a mountain



- 7.) A dust cloud appears over San Angelo, Texas. This is evidence of \_\_\_\_\_.

- A.) deposits of sediments        C.) weathering by wind  
 B.) soil erosion by wind        D.) weathering by plants

- 8.) What type of material is deposited at river deltas due to the river carrying it downstream?

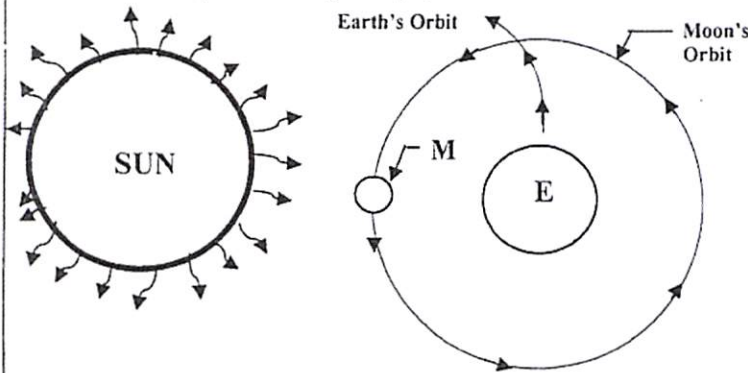
- A.) glacial deposits                      C.) big rocks  
 B.) sedimentary (sand) deposits        D.) dead fish

- 9.) Match the correct word or fact on the left with the definition given on the right.

- |                                 |  |
|---------------------------------|--|
| <u>B</u> fossil fuel            | A.) a resource that can be used and replaced very quickly (trees, fish)      |
| <u>A</u> renewable resource     | B.) a fuel formed over many years from living organisms (coal, natural gas)  |
| <u>C</u> inexhaustible resource | C.) resources that CANNOT be used up (wind, sunlight)                        |
| <u>D</u> nonrenewable resource  | D.) a resource that once it is used up, it is gone. (minerals, gold, copper) |
| <u>H</u> igneous rock           | E.) Rock formed due to the <u>deposition</u> of sediments and compacted      |
| <u>E</u> sedimentary rock       | G.) Rock formed due to pressure and heat in the Earth's lithosphere          |
| <u>G</u> metamorphic rock       | H.) Rock formed near volcanoes due to the heat and quick cooling lava.       |

# Fifth Grade Science Warm-up – Number 35 – Weekly Test

1.) What type of ECLIPSE is happening? **Solar** or **Lunar**.  
(Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?

SOLAR ECLIPSE

Fill in the blank on other information you should know:

The Earth Revolves around the Sun. The Earth Rotates on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no Atmosphere.

2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

A.) Plate Tectonic situation number 1:



What is formed from the separation of the two continental plates shown above?

TRENCH

B.) Plate tectonic situation number 2:



What is formed from the collision of the two continental plates shown above?

MOUNTAIN

3.) In order to build a large building, a large hole must be dug. The \_\_\_\_\_ is located **farthest** from the surface.

- A.) older rock                      C.) all rock is the same age  
B.) younger rock                  D.) more beautiful rock

4.) What is a Glacier?

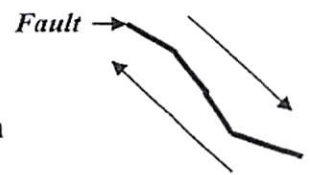
- A.) a slab of concrete                      C.) wind  
B.) a thick sheet of snow and ice        D.) ice cream

5.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.

- A.) sedimentary, metamorphic, igneous  
B.) igneous, metamorphic, sedimentary  
C.) igneous, sedimentary, metamorphic  
D.) erosion, gravity, weathering

6.) California has the famous San Andreas Fault. What is formed when one continental **plate** moves in the opposite direction to the other?

- A.) an earthquake  
B.) electricity  
C.) trench in the ocean  
D.) a mountain



7.) A dust cloud appears over San Angelo, Texas. This is evidence of \_\_\_\_\_.

- A.) deposits of sediments                  C.) weathering by wind  
B.) soil erosion by wind                    D.) weathering by plants

8.) What type of material is deposited at river deltas due to the river carrying it downstream?

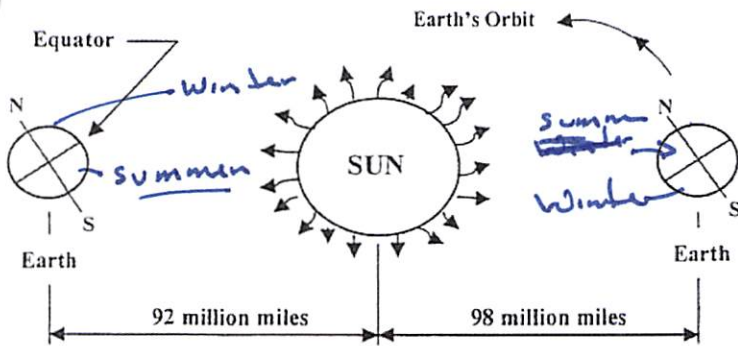
- A.) glacial deposits                              C.) big rocks  
B.) sedimentary (sand) deposits        D.) dead fish

9.) Match the correct word or fact on the left with the definition given on the right.

- |                                 |  |
|---------------------------------|--|
| <u>B</u> fossil fuel            | A.) a resource that can be used and replaced very quickly (trees, fish)      |
| <u>A</u> renewable resource     | B.) a fuel formed over many years from living organisms (coal, natural gas)  |
| <u>C</u> inexhaustible resource | C.) resources that CANNOT be used up (wind, sunlight)                        |
| <u>D</u> nonrenewable resource  | D.) a resource that once it is used up, it is gone. (minerals, gold, copper) |
| <u>H</u> igneous rock           | E.) a rock formed due to the <u>deposition</u> of sediments and compacted    |
| <u>E</u> sedimentary rock       | G.) a rock formed due to pressure and heat in the Earth's lithosphere        |
| <u>G</u> metamorphic rock       | H.) a rock formed near volcanoes due to the heat and quick cooling lava.     |

# Fifth Grade Science Warm-up - Number 36

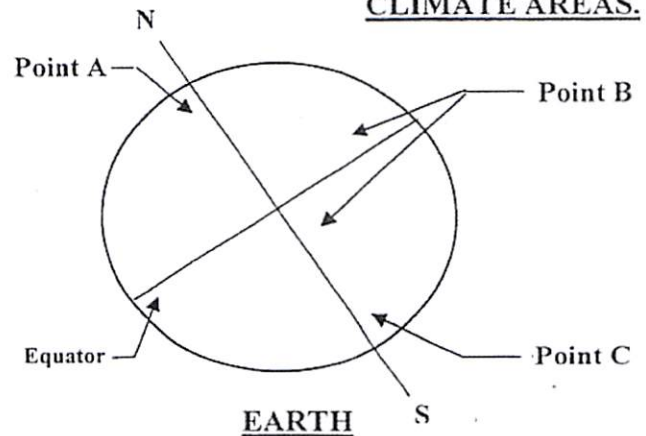
1.) What is the SEASON that is happening on Earth?



On the above diagram, is it SUMMER or WINTER in the NORTHERN HEMISPHERE?

- A.) When the EARTH is the position in its orbit on the left, it is Winter in the NORTHERN HEMISPHERE.
- B.) When the EARTH is the position in its orbit on the right, it is Summer in the NORTHERN HEMISPHERE.

2.) UNDERSTANDING THE EARTH'S CLIMATE AREAS.



- A.) At points A and C, what is the weather and what type of animals live there?  
Cold - Fur and Blubber  
(Thick)
- B.) At point B, what is the weather, what type of animals live there, AND what grows there?  
Equator - Hot - Feathers - Thin Fur

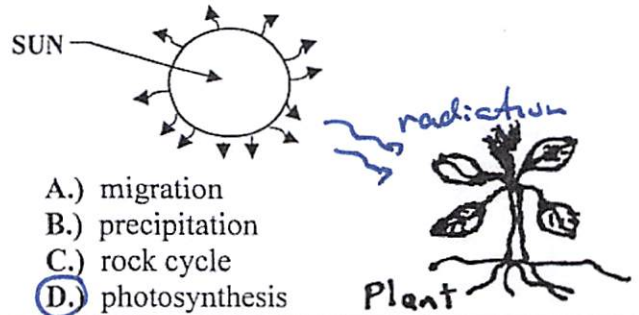
3.) In the model of the Earth, Sun, and moon below, which of the following would make the model more accurate.

- A.) make the Sun smaller
- B.) move the Earth and moon farther away & the Sun larger
- C.) make the Earth smaller than the moon
- D.) make the moon as large as the Sun



4.) Answer the questions on the attached page.

5.) The Sun provides plants energy to make their food. This process is called \_\_\_\_\_.



- A.) migration
- B.) precipitation
- C.) rock cycle
- D.) photosynthesis

6.) Which of the Earth's three layers does erosion take place?

- A.) mantle
- B.) crust
- C.) core
- D.) astronomy

7.) The Sun is made mostly of ...

- A.) hot gases
- B.) giant planets
- C.) burning lava
- D.) moving comets

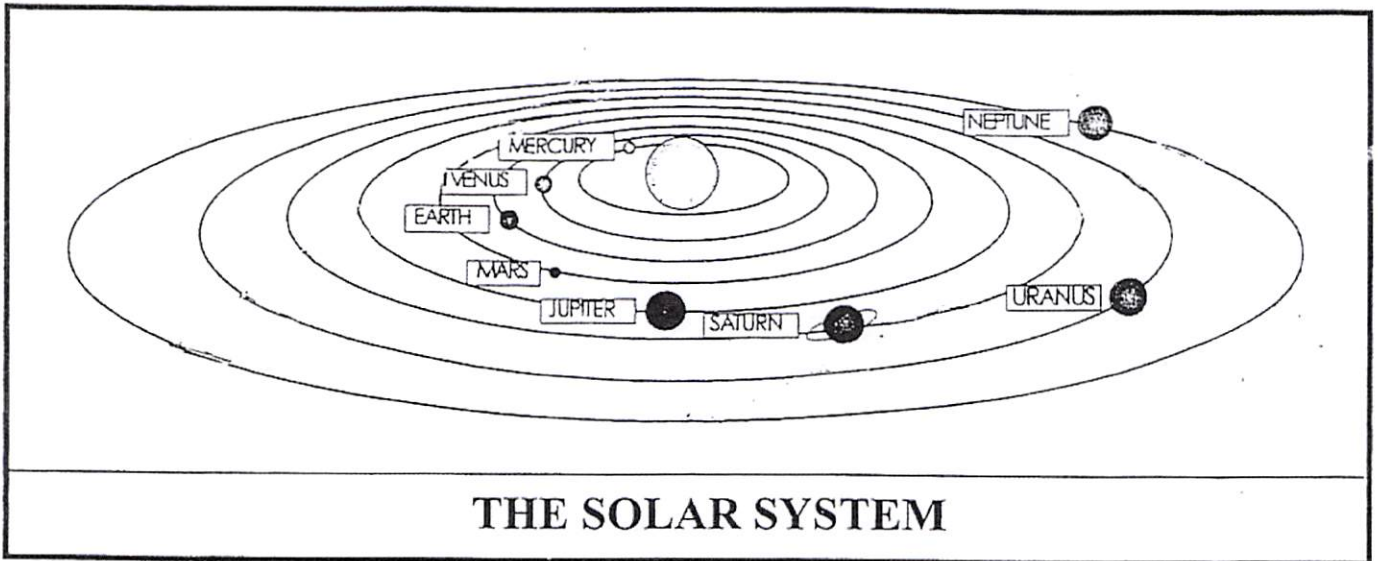
8.) Match the correct word on the left with the definition given on the right.

- |                                  |  |
|----------------------------------|--|
| <u>C</u> fossil fuel             | A.) a resource that can be replaced within a short period of time (trees, fish)        |
| <u>B</u> Sun                     | B.) a typical star that is the source of light and heat for the planets orbiting       |
| <u>D</u> inexhaustible resources | C.) a fuel formed over many years from <u>living organisms</u> (coal, natural gas)     |
| <u>A</u> renewable resources     | D.) resources that <u>CANNOT</u> be used up (wind, sunlight)                           |
| <u>E</u> nonrenewable resources  | E.) resources that <u>CANNOT</u> be replaced after it is used (coal, natural gas, oil) |
| <u>H</u> star                    | G.) part of the Earth's natural environment (water, trees, minerals, wind)             |
| <u>G</u> resource                | H.) an object in space that produces its own heat and light (made of gases)            |

- SOLUTION -

ATTACHMENT (ADDENDUM) - Science Warm-up Number 36

4.) Use your knowledge of the Solar System and the diagram below to answer the questions below.



**THE SOLAR SYSTEM**

4A.) The planet closest to the Sun is \_\_\_\_\_.

- A.) Earth
- B.) Mercury
- C.) Venus
- D.) Neptune

4B.) The planet with the longest orbit is \_\_\_\_\_.

- A.) Earth
- B.) Mercury
- C.) Venus
- D.) Neptune

4C.) Which planet is about the same size as Earth?

- A.) Mars
- B.) Mercury
- C.) Venus
- D.) Neptune

4D.) The fifth planet from the Sun is \_\_\_\_\_.

- A.) Earth
- B.) Saturn
- C.) Jupiter
- D.) Neptune

4E.) The planets \_\_\_\_\_ around the Sun.

- A.) rotate
- B.) revolve
- C.) rock
- D.) roll

4F.) The Earth **rotates** on its \_\_\_\_\_ every 24 hours to complete one day.

- A.) continents
- B.) axis
- C.) plate tectonics
- D.) gravity

4G.) The largest planet in our solar system is \_\_\_\_\_.

- A.) Mars
- B.) Mercury
- C.) Venus
- D.) Jupiter

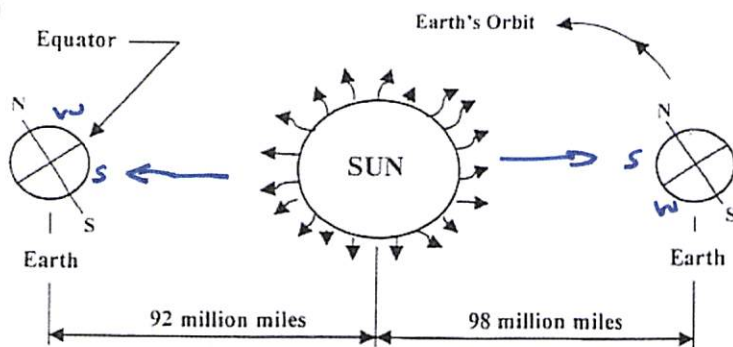
4H.) This **force** keeps the planets in their **elliptical** (slightly oval) orbits around the Sun.

- A.) thrust
- B.) friction
- C.) potential
- D.) gravity



Solution  
Fifth Grade Science Warm-up – Number 37

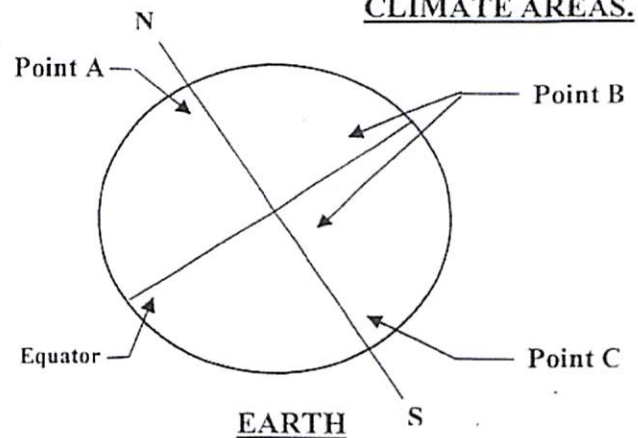
1.) What is the SEASON that is happening on Earth?



On the above diagram, is it SUMMER or WINTER in the SOUTHERN HEMISPHERE?

- A.) When the EARTH is the position in its orbit on the left, it is Summer in the SOUTHERN HEMISPHERE.
- B.) When the EARTH is the position in its orbit on the right, it is Winter in the SOUTHERN HEMISPHERE.

2.) UNDERSTANDING THE EARTH'S CLIMATE AREAS.

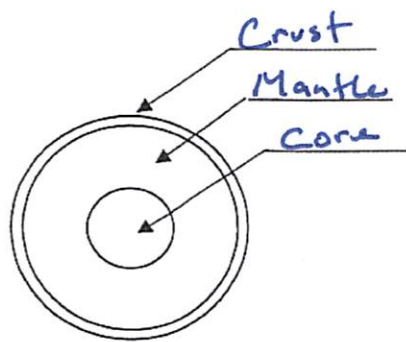


- A.) At points A and C, what is the weather and what type of animals live there?  
COLD - Thick fur, Blubber
- B.) At point B, what is the weather, what type of animals live there, AND what grows there?  
HOT - Thin fur/skins, feathers

3.) If Tanya decided to dig to the center of the Earth, which Layer would take the longest to dig through?

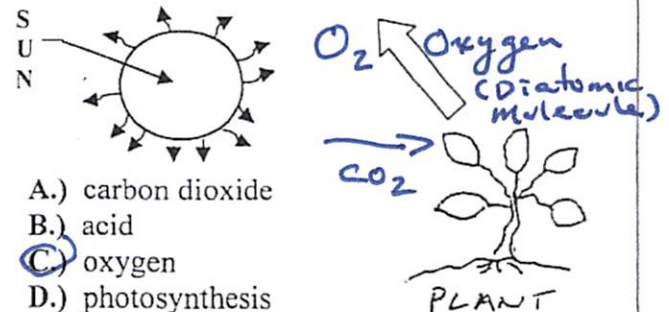
- A.) crust  
B.) core  
C.) mantle  
D.) precipitation

Label the Diagram



4.) Answer the questions on the attached page.

5.) The Sun provides plants energy to make their food. What gas is released in this process?



- A.) carbon dioxide  
B.) acid  
C.) oxygen  
D.) photosynthesis

6.) One thing that the Earth and moon have in common is \_\_\_.

- A.) both have an atmosphere  
B.) neither has a supply of water  
C.) both have rocks  
D.) humans live on both

7.) All of the following are insulators EXCEPT...

- A.) plastic  
B.) metal  
C.) glass  
D.) rubber

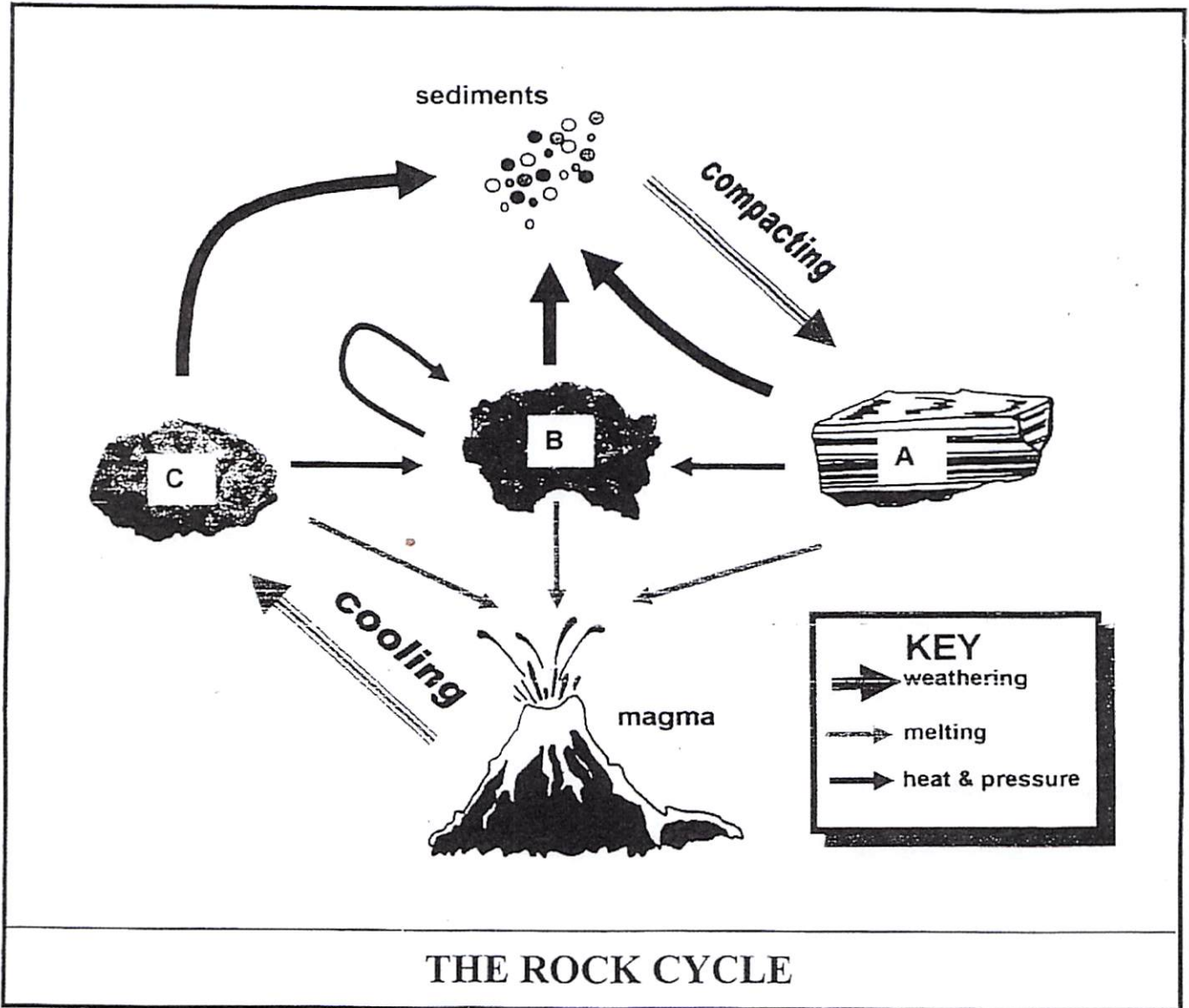
8.) Match the correct word on the left with the definition given on the right.

- |                                  |  |
|----------------------------------|--|
| <u>C</u> revolution              | A.) a resource that can be replaced within a short period of time (trees, fish)        |
| <u>B</u> Sun                     | B.) a typical star that is the source of light and heat for the planets orbiting       |
| <u>D</u> inexhaustible resources | C.) one complete trip of a planet or moon around a star or planet                      |
| <u>A</u> renewable resources     | D.) resources that <u>CANNOT</u> be used up (wind, sunlight)                           |
| <u>E</u> nonrenewable resources  | E.) resources that <u>CANNOT</u> be replaced after it is used (coal, natural gas, oil) |
| <u>H</u> rotation                | G.) part of the Earth's natural environment (water, trees, minerals, wind)             |
| <u>G</u> resource                | H.) the spinning of a planet or moon on its axis                                       |

- SOLUTION -

ATTACHMENT (ADDENDUM) - Science Warm-up Number 37

4.) Use your knowledge of the Rock Cycle and the diagram below to answer the questions below.



4A.) Letter "A" represents \_\_\_\_\_.

- A.) magma                      B.) Igneous Rock  
**C.)** Sedimentary Rock    D.) Metamorphic Rock

4B.) Letter "C" represents \_\_\_\_\_.

- A.) magma                      **B.)** Igneous Rock  
C.) Sedimentary Rock    D.) Metamorphic Rock

4C.) Letter "B" represents \_\_\_\_\_.

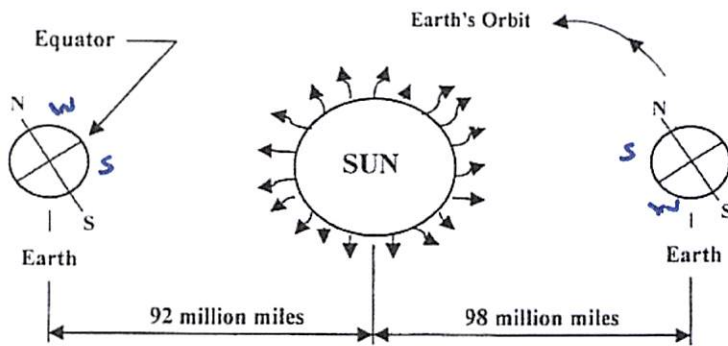
- A.) magma                      B.) Igneous Rock  
C.) Sedimentary Rock    **D.)** Metamorphic Rock

4D.) The cooling of molten rock forms \_\_\_\_\_.

- A.) magma                      **B.)** Igneous Rock  
C.) Sedimentary Rock    D.) Metamorphic Rock

## Fifth Grade Science Warm-up – Number 38

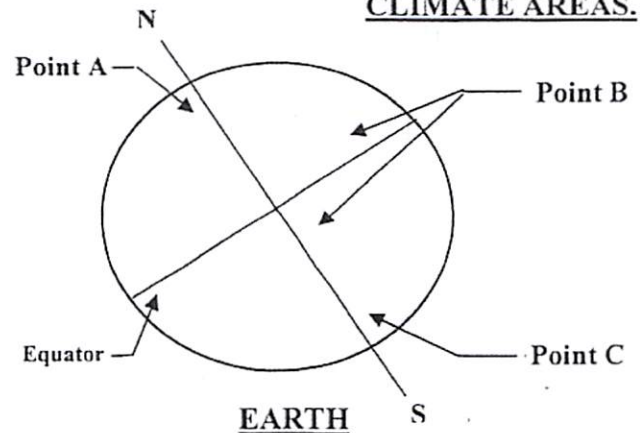
1.) What is the SEASON that is happening on Earth?



On the above diagram, is it SUMMER or WINTER in the Southern or Northern HEMISPHERE?

- A.) When the EARTH is the position in its orbit on the left, it is Winter in the NORTHERN HEMISPHERE.
- B.) When the EARTH is the position in its orbit on the right, it is Summer in the NORTHERN HEMISPHERE.

2.) UNDERSTANDING THE EARTH'S CLIMATE AREAS.

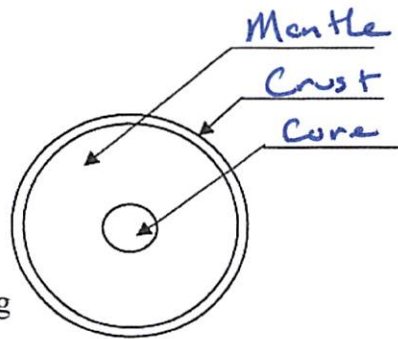


- A.) At points A and C, what is the weather and what type of animals live there?  
Cold, Polar Bears, Penguins
- B.) At point B, what is the weather, what type of animals live there, AND what grows there?  
Hot, Birds-leafless-tropical ferns

3.) If Tanya decided to dig to the center of the Earth, which Layer would take the shortest time to dig through?

- A.) crust  
B.) core  
C.) mantle  
D.) precipitation

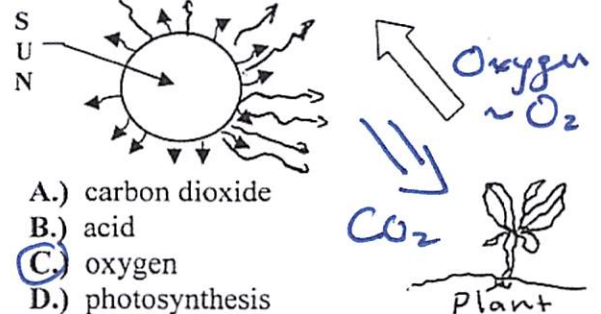
Label the Diagram



Question: On what layer of the Earth does erosion and weathering take place? Crust

4.) Answer the questions on the attached page.

5.) The Sun provides plants energy to make their food. What gas is released in this process?



- A.) carbon dioxide  
B.) acid  
C.) oxygen  
D.) photosynthesis

6.) When saltwater evaporates, what is left behind?

- A.) nothing  
B.) saltwater does not evaporate  
C.) only the salt  
D.) 35 pennies

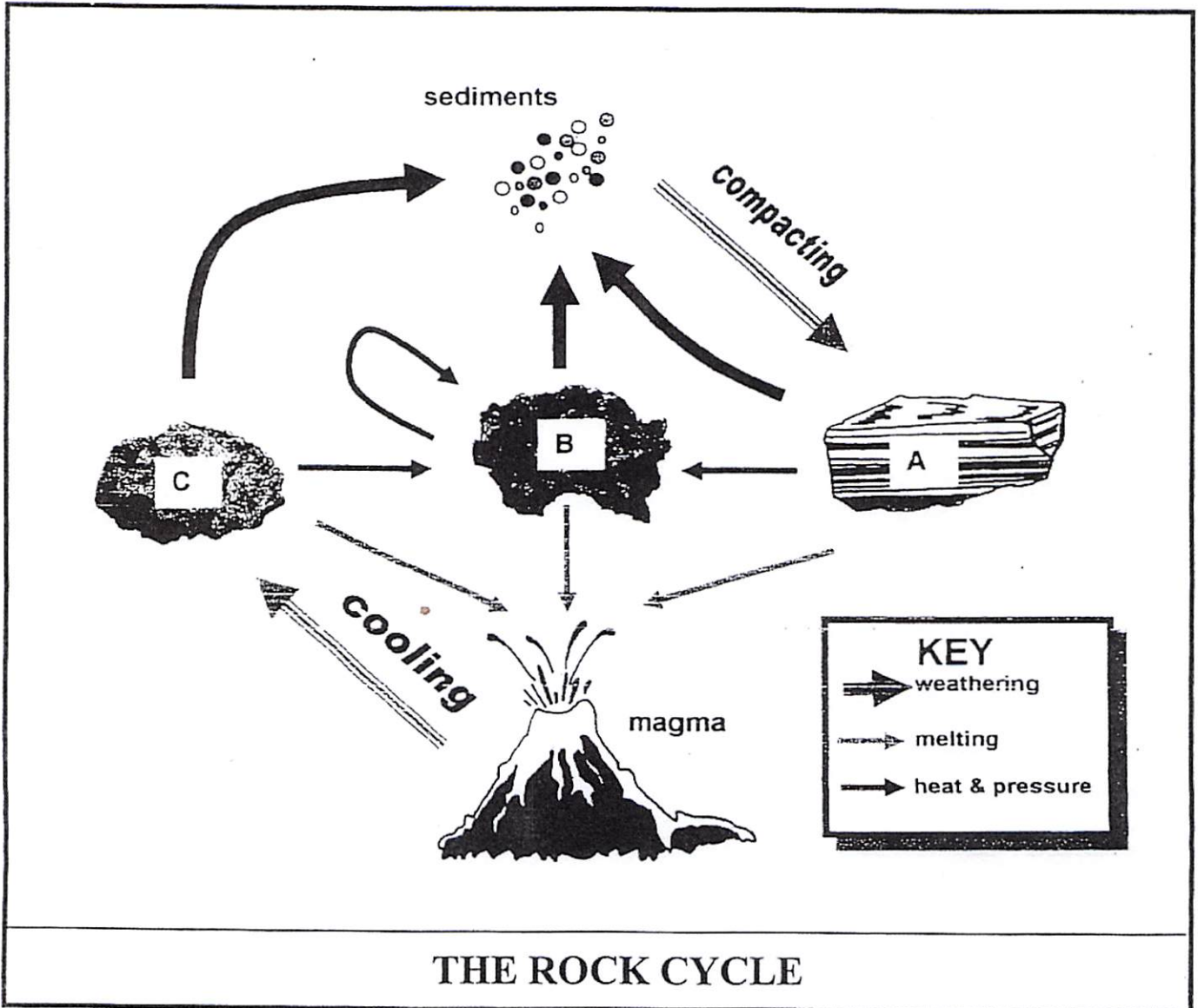
7.) Which of the following items is a conductor?

- A.) plastic  
B.) metal  
C.) glass  
D.) rubber

8.) Match the correct word on the left with the definition given on the right.

- |                                  |  |
|----------------------------------|--|
| <u>C</u> corona                  | A.) a resource that can be replaced within a short period of time (trees, fish)        |
| <u>B</u> solar flare             | B.) an eruption on the Sun's surface shooting a intense solar energy into space        |
| <u>D</u> inexhaustible resources | C.) the outer atmosphere of the Sun, only seen during a solar eclipse                  |
| <u>A</u> renewable resources     | D.) resources that <u>CANNOT</u> be used up (wind, sunlight)                           |
| <u>E</u> nonrenewable resources  | E.) resources that <u>CANNOT</u> be replaced after it is used (coal, natural gas, oil) |
| <u>H</u> lunar cycle             | G.) the Sun's inner atmosphere – sometimes containing inner flares                     |
| <u>G</u> chromosphere            | H.) phases of the moon as the moon revolves around the Earth during the month          |

4.) Use your knowledge of the Rock Cycle and the diagram below to answer the questions below.



4A.) Letter "A" represents \_\_\_\_\_.

A.) magma                      B.) Igneous Rock  
C.) Sedimentary Rock      D.) Metamorphic Rock

4B.) Letter "B" represents \_\_\_\_\_.

A.) magma                      B.) Igneous Rock  
C.) Sedimentary Rock      D.) Metamorphic Rock

4C.) Letter "C" represents \_\_\_\_\_.

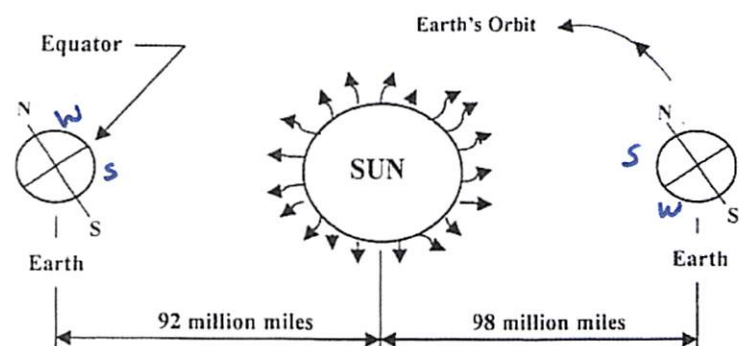
A.) magma                      B.) Igneous Rock  
C.) Sedimentary Rock      D.) Metamorphic Rock

4D.) The cooling of molten rock/lava forms \_\_\_\_\_.

A.) magma                      B.) Igneous Rock  
C.) Sedimentary Rock      D.) Metamorphic Rock

- SOLUTION -  
**Fifth Grade Science Warm-up – Number 39**

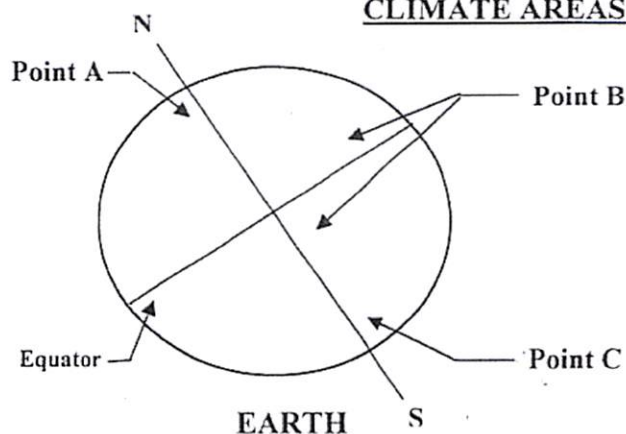
1.) What is the SEASON that is happening on Earth?



On the above diagram, is it SUMMER or WINTER in the Southern or Northern HEMISPHERE?

- A.) When the EARTH is the position in its orbit on the left, it is WINTER in the NORTHERN HEMISPHERE.
- B.) When the EARTH is the position in its orbit on the right, it is SUMMER in the SOUTHERN HEMISPHERE.

2.) UNDERSTANDING THE EARTH'S CLIMATE AREAS.

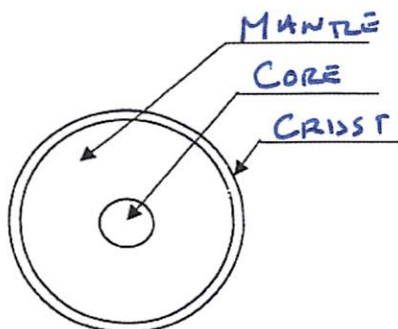


- A.) At points A and C, what is the weather and what type of animals live there?  
COLD, ARCTIC, POLAR BEARS
- B.) At point B, what is the weather, what type of animals live there, AND what grows there?  
HOT, Thin Fur Animals, FERNS

3.) If Tanya decided to dig to the center of the Earth, which layer is the hottest layer?

- A.) crust  
 B.) core  
 C.) mantle  
 D.) precipitation

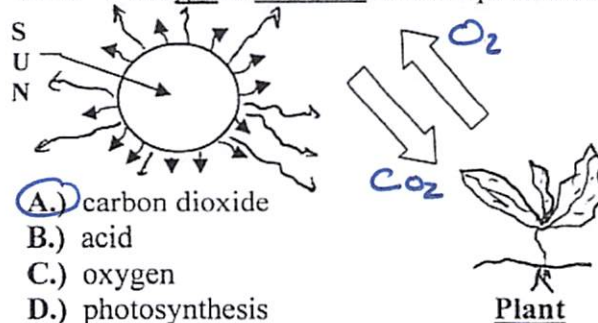
Label the Diagram



Question: What layer of the Earth does one find Igneous and Sedimentary rocks? \_\_\_\_\_

4.) Answer the questions on the attached page.

5.) The Sun provides plants energy to make their food. What gas is absorbed into the plant's leaf?



- (A.) carbon dioxide  
 B.) acid  
 C.) oxygen  
 D.) photosynthesis

6.) When wind or water moves soil or rocks it is called \_\_\_\_\_.

- A.) weathering  
(B.) erosion  
 C.) insulator  
 D.) renewable resource

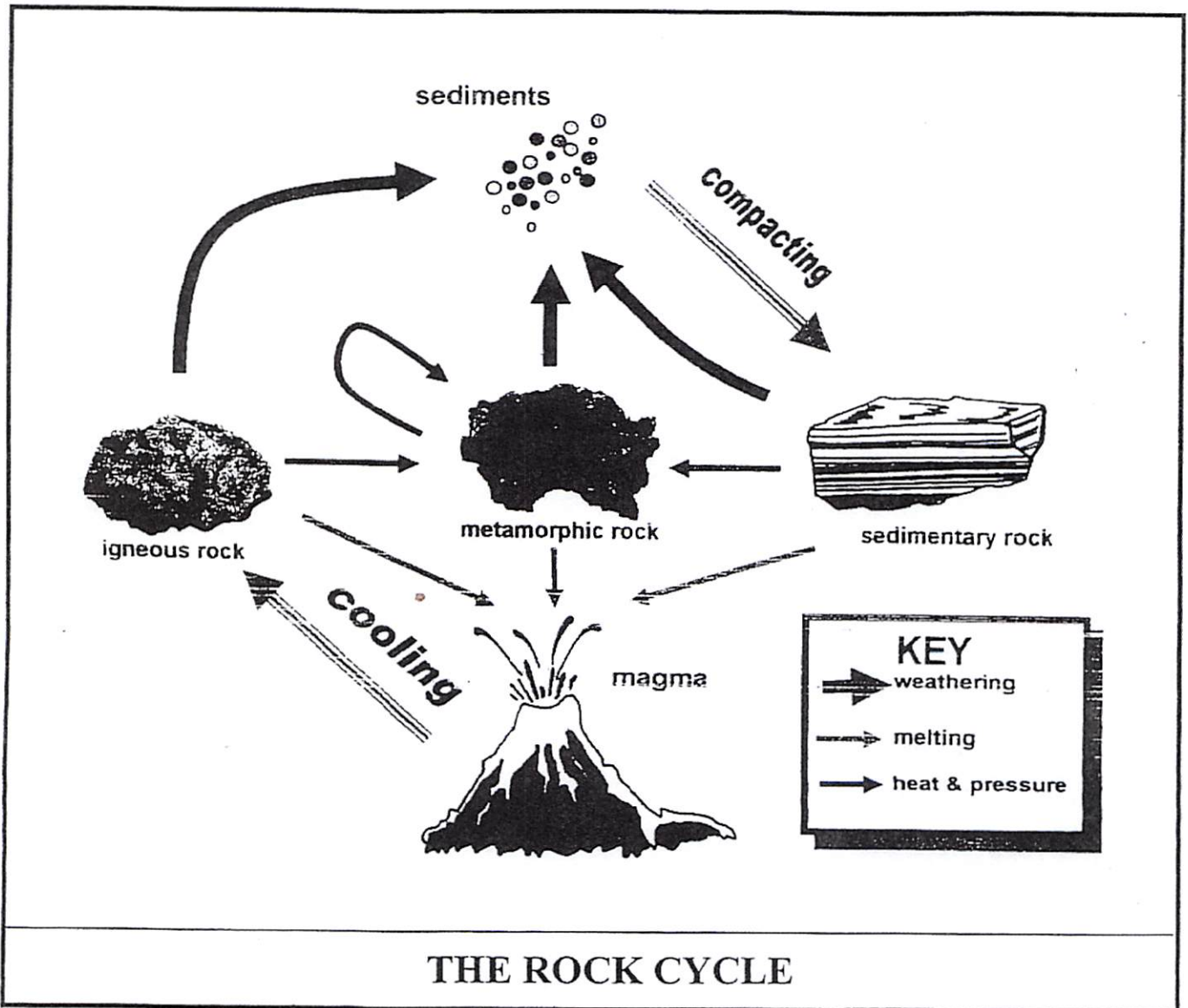
7.) Which of the following items is a conductor?

- A.) plastic  
(B.) metal  
 C.) glass  
 D.) rubber

8.) Match the correct word on the left with the definition given on the right.

- |                                 |  |
|---------------------------------|--|
| <u>C</u> corona                 | A.) a resource that can be replaced within a short period of time (trees, fish)        |
| <u>B</u> solar flare            | B.) an eruption on the Sun's surface shooting a intense solar energy into space        |
| <u>D</u> eclipse                | C.) the outer atmosphere of the Sun, only seen during a solar eclipse                  |
| <u>A</u> renewable resources    | D.) one object casting its shadow on another making it appear to go away               |
| <u>E</u> nonrenewable resources | E.) resources that <u>CANNOT</u> be replaced after it is used (coal, natural gas, oil) |
| <u>H</u> lunar cycle            | G.) the Sun's inner atmosphere – sometimes containing inner flares                     |
| <u>G</u> chromosphere           | H.) phases of the moon as the moon revolves around the Earth during the month          |

4.) Use your knowledge of the Rock Cycle and the diagram below to answer the questions below.



4A.) Compacting helps form \_\_\_\_\_.

- A.) melting rock      B.) Igneous Rock  
C.) Sedimentary Rock      D.) Metamorphic Rock

4B.) What type of rock forms from cooling magma?

- A.) melting rock      B.) Igneous Rock  
C.) Sedimentary Rock      D.) Metamorphic Rock

4C.) Metamorphic rock is formed from \_\_\_\_\_.

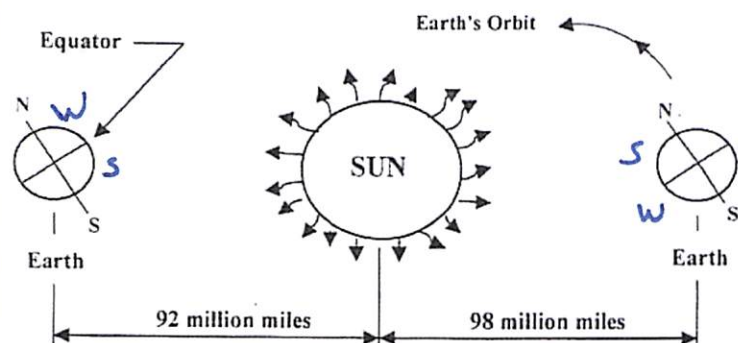
- A.) melting      B.) heat and pressure  
C.) freezing      D.) freezing

4D.) Weathering changes the rock into \_\_\_\_\_.

- A.) magma      B.) water  
C.) ice      D.) sediments

## Fifth Grade Science Warm-up – Number 40 – Weekly Test

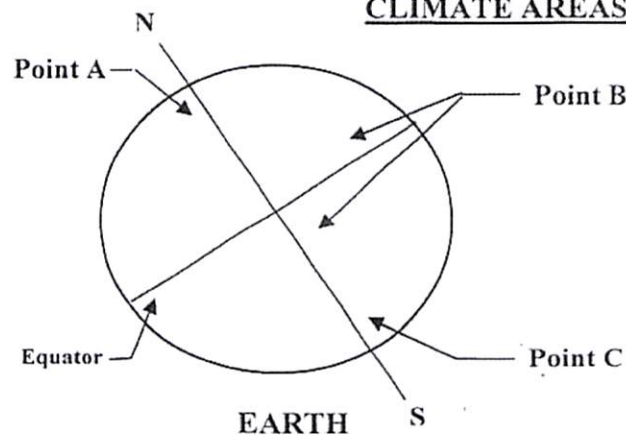
1.) What is the **SEASON** that is happening on Earth?



On the above diagram, is it **SUMMER** or **WINTER** in the **HEMISPHERE** questioned below?

- A.) When the **EARTH** is the position in its orbit on the **left**, it is Winter in the **NORTHERN HEMISPHERE**.
- B.) When the **EARTH** is the position in its orbit on the **right**, it is Winter in the **SOUTHERN HEMISPHERE**.

2.) UNDERSTANDING THE EARTH'S **CLIMATE AREAS.**

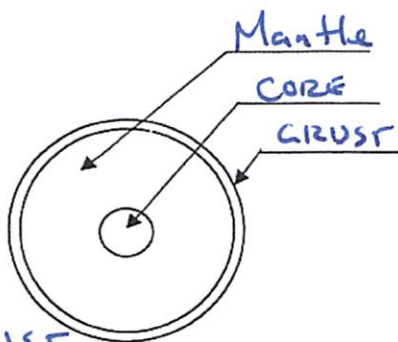


- A.) At points A and C, what is the **weather** and what **type of animals** live there?  
COLD, Polar Bears, PENGUINS
- B.) At point B, what is the **weather**, what type of **animals** live there, AND what **grows** there?  
HOT, Thin fur animals, Ferns Rain forest

3.) If Tanya decided to dig to the center of the Earth, which layer is the **hottest**?

- A.) crust  
B.) core  
C.) mantle  
D.) precipitation

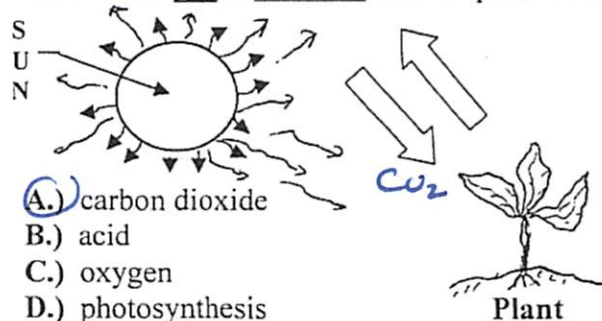
Label the Diagram



Question: On what layer of the Earth does one find Igneous and Sedimentary rocks? CRUST

4.) Answer the questions on the attached page.

5.) The Sun provides plants energy to make their food. What **gas** is **absorbed** into the plant's leaf?



- A.) carbon dioxide  
B.) acid  
C.) oxygen  
D.) photosynthesis

6.) When wind or water **moves** soil or rocks it is called \_\_\_\_\_.

- A.) weathering  
 B.) erosion  
C.) insulator  
D.) renewable resource

7.) Which of the following items is a conductor?

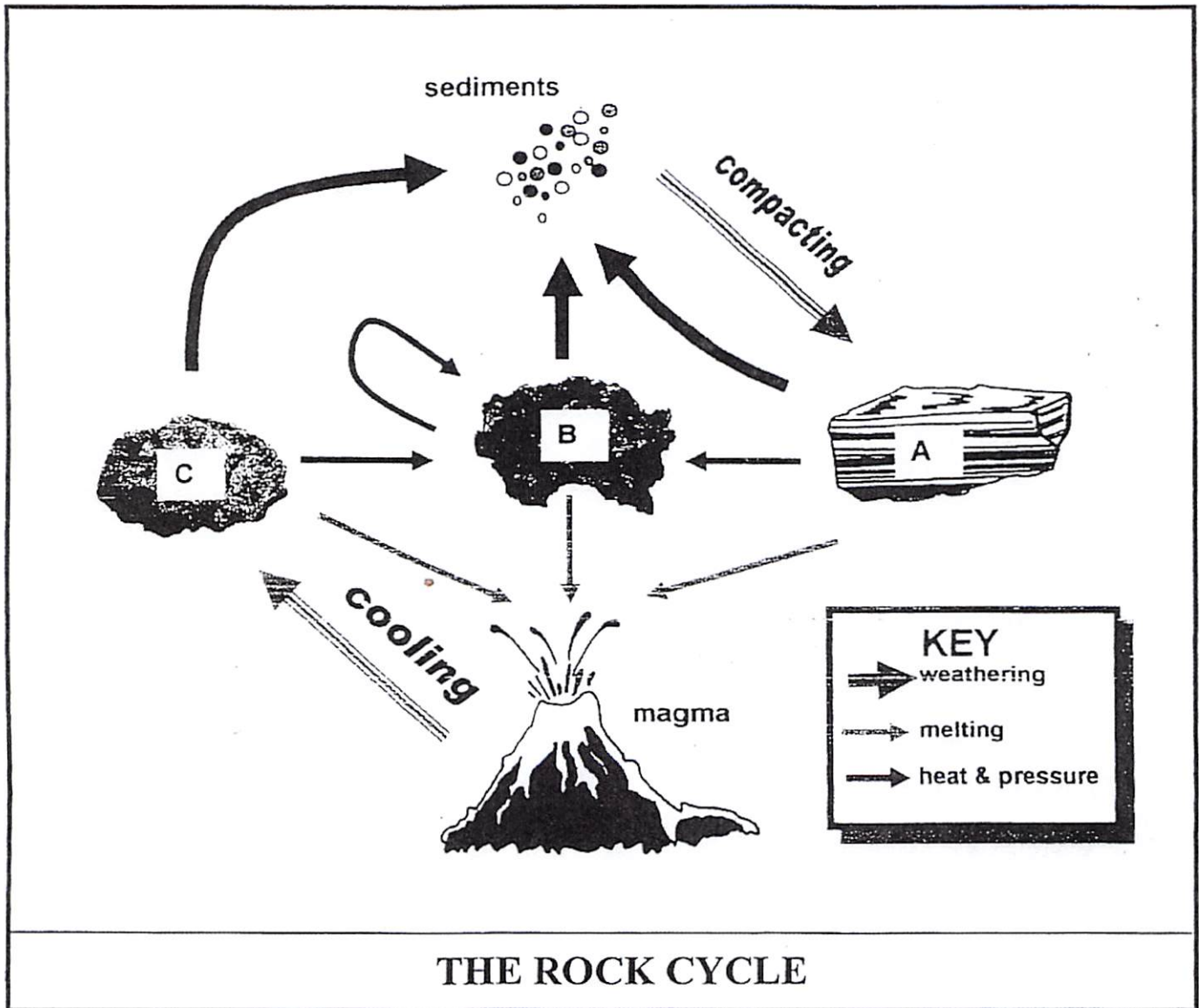
- A.) plastic  
 B.) metal  
C.) glass  
D.) rubber

8.) Match the correct word on the left with the definition given on the right.

- |                                 |  |
|---------------------------------|--|
| <u>C</u> corona                 | A.) a resource that can be replaced within a short period of time (trees, fish)        |
| <u>B</u> solar flare            | B.) an eruption on the Sun's surface shooting an intense solar energy into space       |
| <u>D</u> eclipse                | C.) the outer atmosphere of the Sun, only seen during a solar eclipse                  |
| <u>A</u> renewable resources    | D.) one object casting its shadow on another making it appear to go away               |
| <u>E</u> nonrenewable resources | E.) resources that <b>CANNOT</b> be replaced after it is used (coal, natural gas, oil) |
| <u>H</u> lunar cycle            | G.) the Sun's inner atmosphere – sometimes containing inner flares                     |
| <u>G</u> chromosphere           | H.) phases of the moon as the moon revolves around the Earth during the month          |

ATTACHMENT (ADDENDUM) - Science Warm-up Number 40-A

4.) Use your knowledge of the Rock Cycle and the diagram below to answer the questions below.



4A.) Letter "A" represents \_\_\_\_\_.

- A.) magma
- B.) Igneous Rock
- C.)** Sedimentary Rock
- D.) Metamorphic Rock

4B.) Letter "B" represents \_\_\_\_\_.

- A.) magma
- B.) Igneous Rock
- C.) Sedimentary Rock
- D.)** Metamorphic Rock

4C.) Letter "C" represents \_\_\_\_\_.

- A.) magma
- B.)** Igneous Rock
- C.) Sedimentary Rock
- D.) Metamorphic Rock

4D.) The cooling of molten rock/lava forms \_\_\_\_\_.

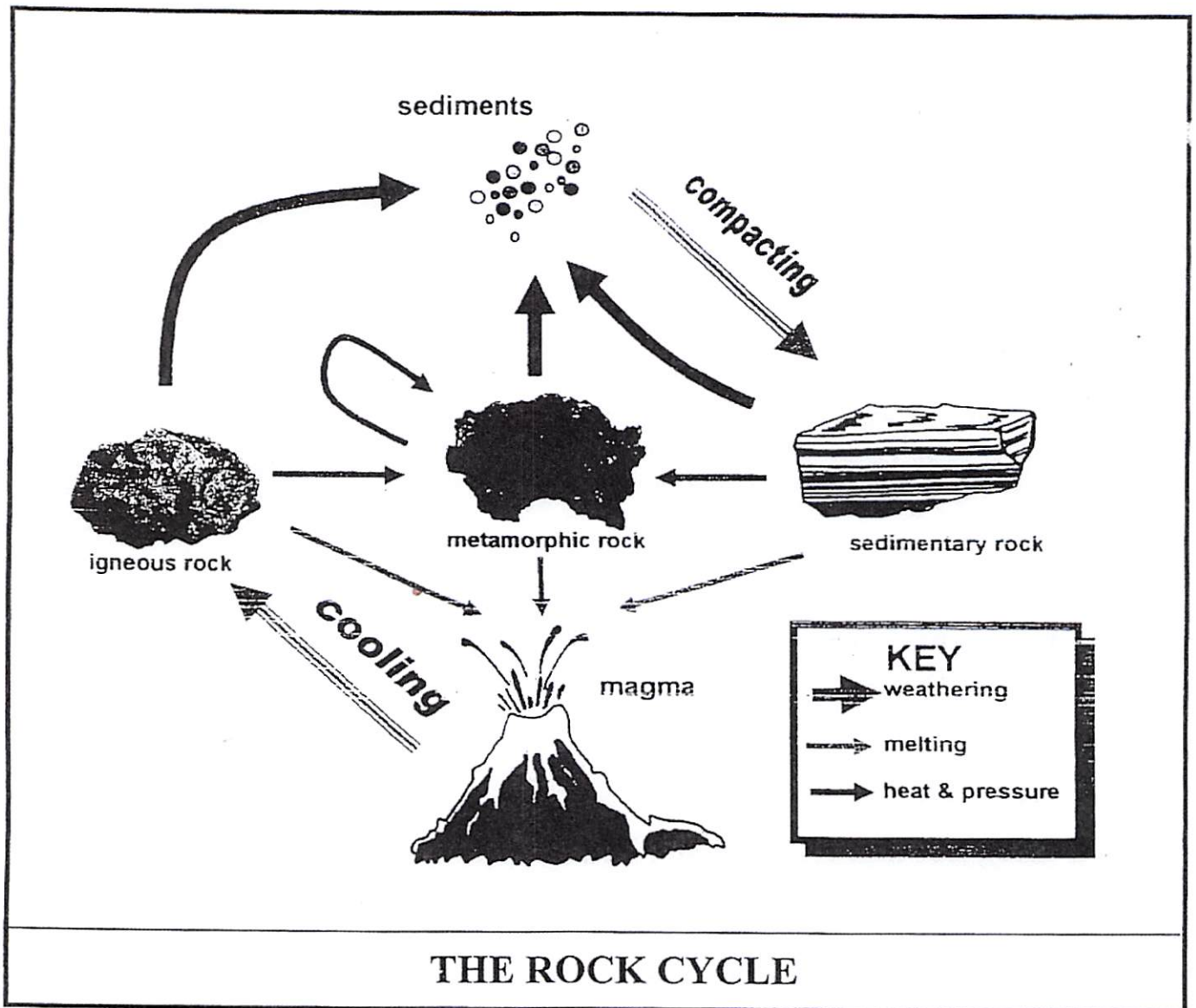
- A.) magma
- B.)** Igneous Rock
- C.) Sedimentary Rock
- D.) Metamorphic Rock



- SOLUTION -

ATTACHMENT (ADDENDUM) - Science Warm-up Number 40-B

4.) Use your knowledge of the Rock Cycle and the diagram below to answer the questions below.



4A.) Compacting helps form \_\_\_\_\_.

- A.) melting rock      B.) Igneous Rock  
C.) Sedimentary Rock      D.) Metamorphic Rock

4B.) What type of rock forms from cooling magma?

- A.) melting rock      B.) Igneous Rock  
C.) Sedimentary Rock      D.) Metamorphic Rock

4C.) Metamorphic rock is formed from \_\_\_\_\_.

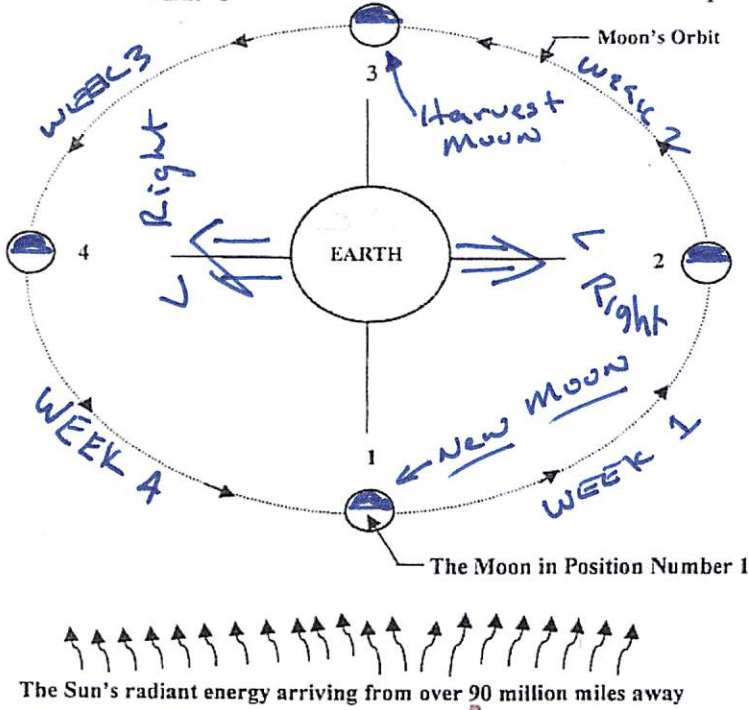
- A.) melting      B.) heat and pressure  
C.) freezing      D.) freezing



4D.) Weathering changes the rock into \_\_\_\_\_.

- A.) magma      B.) water  
C.) ice      D.) sediments

- SOLUTION -  
Fifth Grade Science Warm-up – Number 41

1.) Shade the UNlighted side of the moon at each of the 4 positions with your pencil. Answer the questions below.



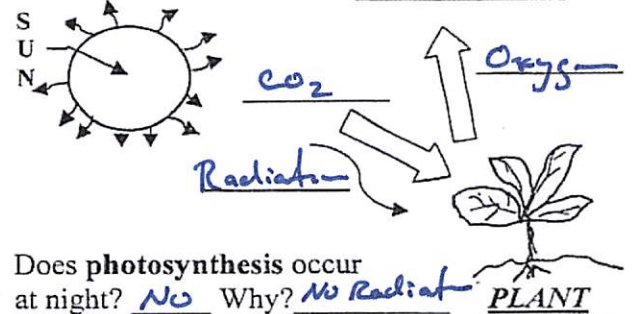
- a.) What number on the diagram is called the "New Moon" or the moon seen at the beginning of EACH month? one-1
- b.) What number on the diagram is called the "Harvest Moon" or the moon seen from Earth that is called a FULL MOON halfway through the month? 3-Three
- c.) What number on the diagram looks like these shapes from Earth?
-  2 - What week of month? 1
-  4 - What week of month? 3
- d.) Which number is in the position that under special conditions of the Earth, Moon, and sun's orbit will cause a lunar eclipse? 3  
What about a solar eclipse? 1

2.) A scientist is studying soil samples. She wants to determine which type of soil would be best for growing a certain type of plant. Which of the following would be an accurate test to determine the best soil for the plant?

- A.) Planting the plants in the same soil and recording the results.
- B.) Planting the plants in different types of soil, water them equally, and record the results.
- C.) Planting all the plants in one type of soil, not watering the plants and recording the results.

3.) Answer the questions on the attached page.

4.) Label all arrows in the photosynthesis process.



6.) Which surface on Earth heats up the fastest?

- A.) high mountains                      C.) land
- B.) oceans                                      D.) polar ice cap

7.) Which of the following items is an insulator?

- A.) penny                                      C.) glass
- B.) metal    D.) human body

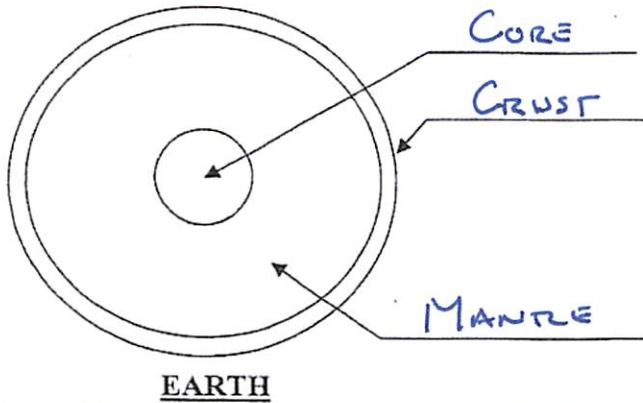
8.) Match the correct word on the left with the definition given on the right.

- |   |   |
|---|---|
| <u>H</u> water cycle                      | A.) precipitation that falls over land and enters streams and rivers to the ocean |
| <u>G</u> CO <sub>2</sub> and Oxygen cycle | B.) the Earth's crust shaking caused by two pieces moving in opposite directions  |
| <u>E</u> permeability                     | C.) the sudden downhill movement of a huge mass of rock, soil, and mud            |
| <u>B</u> earthquake                       | D.) to hold within, usually dealing with the holding of water in soil             |
| <u>A</u> run-off                          | E.) ability to allow water to flow into small pore spaces of an object            |
| <u>C</u> landslide                        | G.) the movement of carbon dioxide and oxygen between organisms and air           |
| <u>D</u> retain                           | H.) the change of water between different forms (water, gas, rain) on earth       |

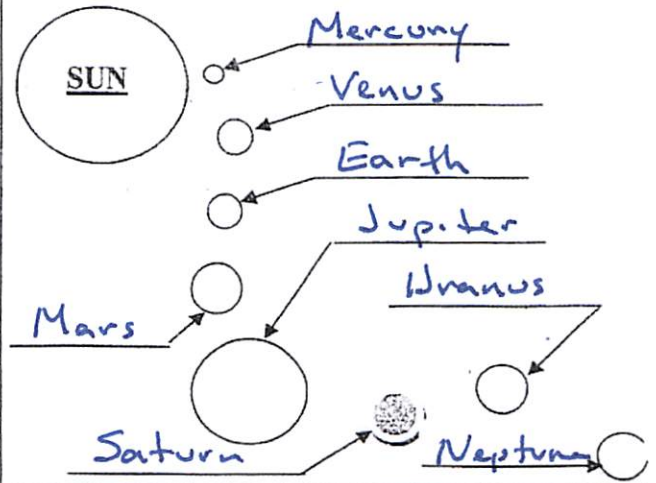
# Fifth Grade Science Warm-up – Addendum - Number 41

1.) Fill in the diagram using the following words:

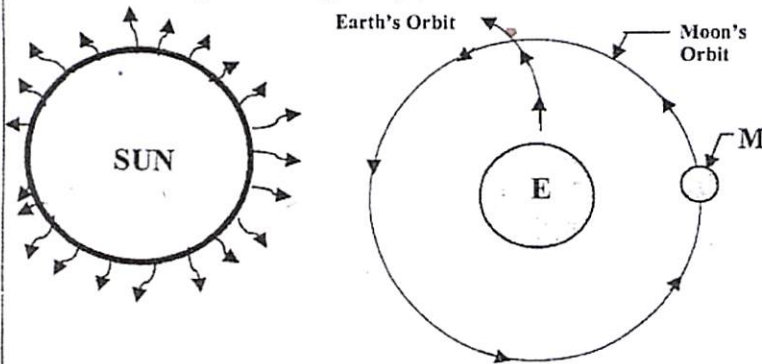
Mantle      Crust      Core



2.) Name the 8 planets that **REVOLVE** around the SUN in our solar system.



3.) What type of ECLIPSE is happening? **Solar** or **Lunar**.  
(Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?  
Lunar Eclipse

Fill in the blank on other information you should know:

The Earth Revolves around the Sun. The Earth Rotates on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no Atmosphere

4.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

A.) Plate Tectonic situation number 1:



What is formed from the collision of the two continental plates shown above?

MOUNTAIN

B.) Plate tectonic situation number 2:



What is formed from the separation of the two continental plates shown above?

TRENCH

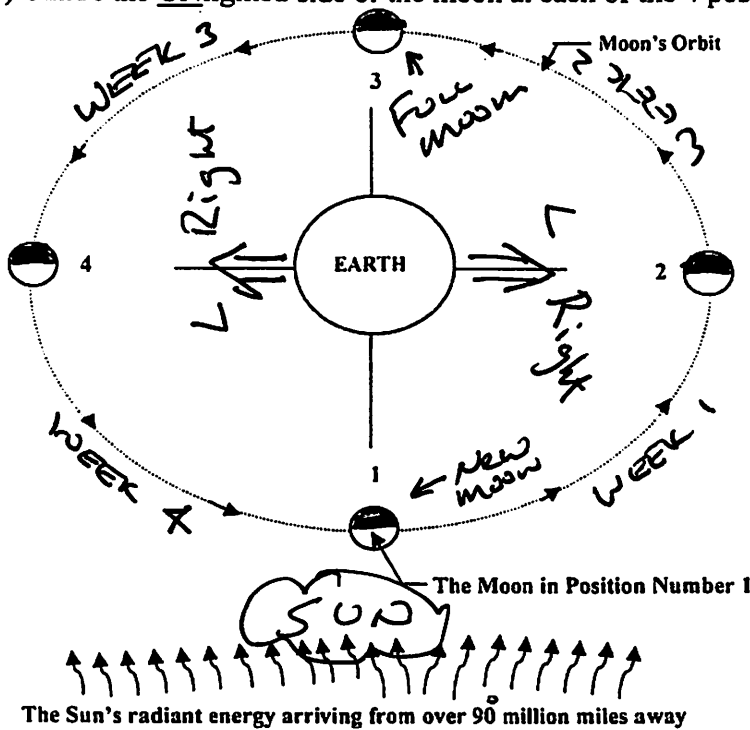
5.) Match the correct definition or fact on the left with the definition given on the right.



- H concave lens
- I refraction
- B opaque
- J energy
- C electrical energy
- F reflection
- D prism
- A convex lens
- E source

- A.) a clear plastic or glass shaped lens that bends light **INWARD**.
- B.) material that absorbs all light. (I can't see through this object!)
- C.) energy carried by electrons and can produce heat, light, and motion.
- D.) a clear (translucent) object that breaks visible light into ROYGBIV.
- E.) a starting point **or** where something begins
- F.) a light ray redirected upon itself ("Hey, I can see myself!")
- H.) a clear plastic or glass shaped lens that bends light **OUTWARD**
- I.) the bending of light rays through a liquid or clear solid prism
- J.) ability to do work (hopefully, usually work)

## Fifth Grade Science Warm-up – Number 42

1.) Shade the UNlighted side of the moon at each of the 4 positions with your pencil. Answer the questions below.



- What number on the diagram is called the "New Moon" or the moon seen at the beginning of EACH month? 1-ONE
- What number on the diagram is called the "Harvest Moon" or the moon seen from Earth that is called a FULL MOON halfway through the month? 3-Three
- What number on the diagram looks like these shapes from Earth?  
 4 - What week of month? 3  
 2 - What week of month? 1
- Which number is in the position that under special conditions of the Earth, Moon, and sun's orbit will cause a lunar eclipse? 3  
 What about a solar eclipse? 1

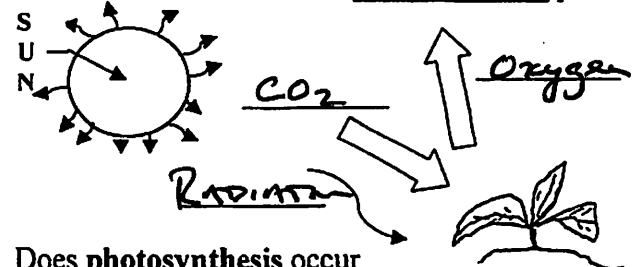
2.) Richard wants to compare textures of two types of soil. Which of the following could he do to test the soil texture?

- Pour water on the soil.
- Rub the soil between his fingers.
- Mix the soil types together
- Heat the soil.

**NOTE:** Think what 'texture' means and how it can be test.

3.) Answer the questions on the attached page.

4.) Label all arrows in the photosynthesis process.



Does photosynthesis occur at night? no Why? no RADIATION PLANT

6.) Which surface on Earth heats up the fastest?

- |                    |                                       |
|--------------------|---------------------------------------|
| A.) high mountains | <input checked="" type="radio"/> land |
| B.) oceans         | D.) polar ice cap                     |

7.) What are type(s) of precipitation?

- |           |                                       |
|-----------|---------------------------------------|
| A.) snow  | <input checked="" type="radio"/> rain |
| B.) sleet | D.) All of the above                  |

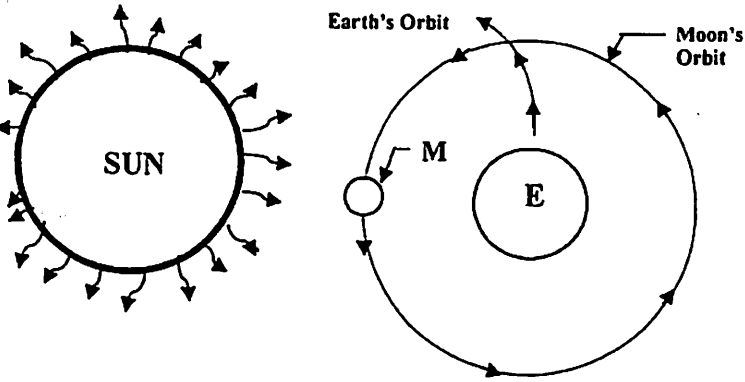
8.) Match the correct word on the left with the definition given on the right.

- |   |   |
|---|---|
| <u>H</u> water cycle                      | A.) precipitation that falls over land and enters streams and rivers to the ocean |
| <u>G</u> CO <sub>2</sub> and Oxygen cycle | B.) the Earth's crust shaking caused by two pieces moving in opposite directions  |
| <u>F</u> permeability                     | C.) the sudden downhill movement of a huge mass of rock, soil, and mud            |
| <u>B</u> earthquake                       | D.) to hold within, usually dealing with the holding of water in soil             |
| <u>A</u> run-off                          | E.) ability to allow water to flow into small pore spaces of an object            |
| <u>C</u> landslide                        | G.) the movement of carbon dioxide and oxygen between organisms and air           |
| <u>D</u> retain                           | H.) the change of water between different forms (water, gas, rain) on earth       |

## Fifth Grade Science Warm-up – Number 42 Addendum

1.) What type of ECLIPSE is happening? **Solar** or **Lunar**.

(Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?

SOLAR

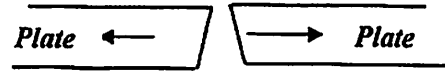
Fill in the blank on other information you should know:

The Earth Revolves around the Sun. The Earth Rotates on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no atmosphere.

2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

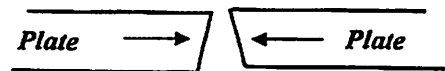
A.) Plate Tectonic situation number 1:



What is formed from the separation of the two continental plates shown above?

TRENCH

B.) Plate tectonic situation number 2:



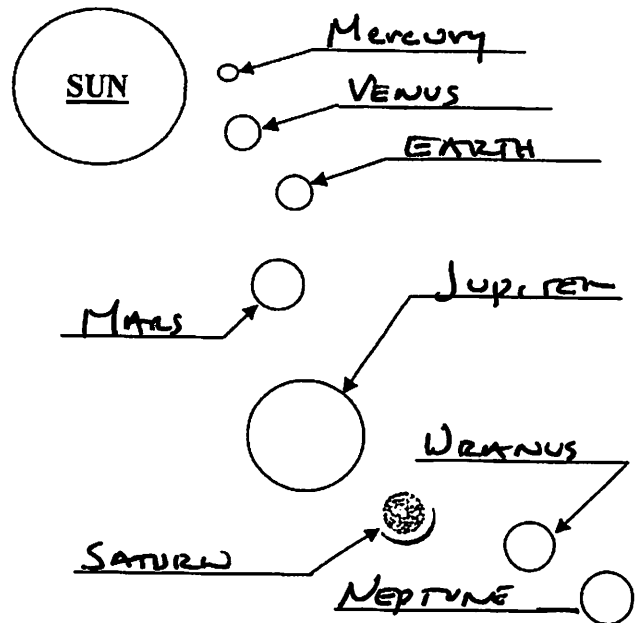
What is formed from the collision of the two continental plates shown above?

MOUNTAIN

3.) Circle all **TRUE** statements about the SUN below:

- Another name for the sun is lunar.
- The Sun is made of gases.
- All life on Earth is possible due to the Sun's energy.
- The Earth is about 95 million miles from the Sun
- It is a bad idea to look at the Sun during the day.
- The most common gases on the Sun are Hydrogen and Helium. Hydrogen is "H" and Helium is "He."
- It takes the Sun's radiant energy between 6 to 8 minutes to reach Earth from the surface of the Sun.
- The Sun is bigger than the Jupiter.
- The Sun is the nearest star to Earth.
- The Sun is at the center of the solar system.
- Planets revolve around the Sun
- Planets rotate around the Sun.
- The Sun is so large that its enormous mass and gravity keep the planets in motion around it.
- The Sun is just another star lighting up the Universe.

4.) Name the 8 planets in our Solar System.



5.) Match the correct word or fact on the left with the definition given on the right.

B fossil fuel

A renewable resource

C inexhaustible resource

D nonrenewable resource

H igneous rock

E sedimentary rock

G metamorphic rock

A.) a resource that can be used and replaced very quickly (trees, fish)

B.) a fuel formed over many years from living organisms (coal, natural gas)

C.) resources that **CANNOT** be used up (wind, sunlight)

D.) a resource that once it is used up, it is gone. (minerals, gold, copper)

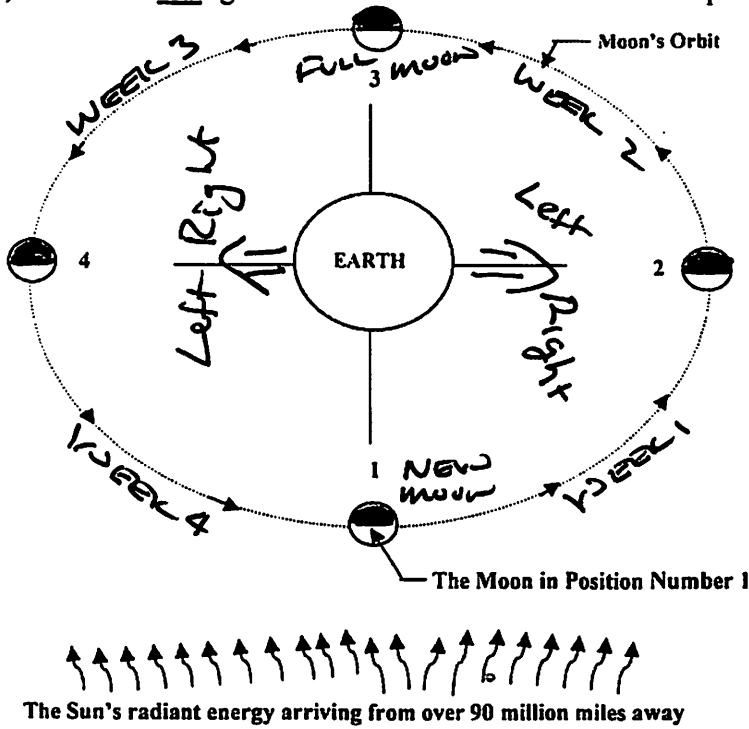
E.) Rock formed due to the deposition of sediments and compacted



G.) Rock formed due to pressure and heat in the Earth's lithosphere

H.) Rock formed near volcanoes due to the heat and quick cooling lava.

- Solution -  
**Fifth Grade Science Warm-up – Number 43**

1.) Shade the UNlighted side of the moon at each of the 4 positions with your pencil. Answer the questions below.



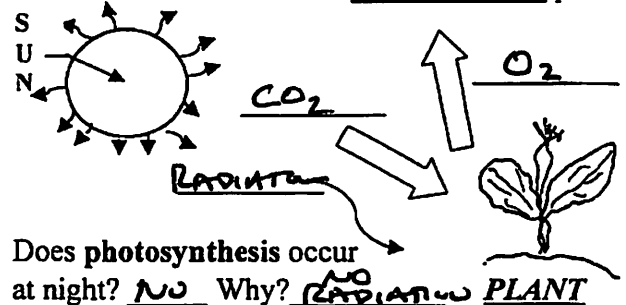
- a.) What number on the diagram is called the "New Moon" or the moon seen at the beginning of EACH month? 1
- b.) What number on the diagram is called the "Harvest Moon" or the moon seen from Earth that is called a FULL MOON halfway through the month? 3
- c.) What number on the diagram looks like these shapes from Earth?  
 2 - What week of month? 1  
 4 - What week of month? 3
- d.) Which number is in the position that under special conditions of the Earth, Moon, and sun's orbit will cause a lunar eclipse? 3  
 What about a solar eclipse? 1

2.) Andrea wants to know examples of inherited traits. So his teacher provided examples. Circle the examples below that inherited traits from your mother and father.

- Speaking French
- Big feet
- Hair color
- Eye color
- Your name
- Your height
- Avoiding spicy food
- Counting to a 100

3.) Answer the questions on the attached page.

4.) Label all arrows in the photosynthesis process.



6.) Which surface on Earth heats up the slowest?

- A.) high mountains                      C.) land  
 B.) oceans                                   D.) polar ice cap

7.) What are type(s) of precipitation?

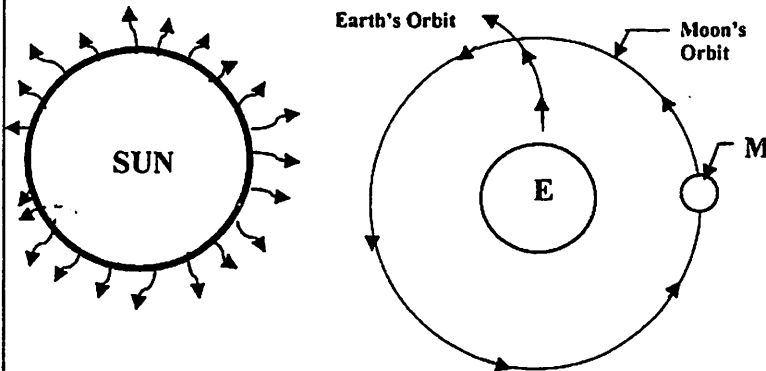
- A.) snow                                      C.) rain  
 B.) sleet                                       D.) All of the above

8.) Match the correct word on the left with the definition given on the right.

- |   |   |
|---|---|
| <u>H</u> water cycle                      | A.) precipitation that falls over land and enters streams and rivers to the ocean |
| <u>G</u> CO <sub>2</sub> and Oxygen cycle | B.) the Earth's crust shaking caused by two pieces moving in opposite directions  |
| <u>E</u> permeability                     | C.) the sudden downhill movement of a huge mass of rock, soil, and mud            |
| <u>B</u> earthquake                       | D.) to hold within, usually dealing with the holding of water in soil             |
| <u>A</u> run-off                          | E.) ability to allow water to flow into small pore spaces of an object            |
| <u>C</u> landslide                        | G.) the movement of carbon dioxide and oxygen between organisms and air           |
| <u>D</u> retain                           | H.) the change of water between different forms (water, gas, rain) on earth       |

# Fifth Grade Science Warm-up – Number 43 Addendum

- 1.) What type of ECLIPSE is happening? **Solar** or **Lunar**.  
(Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?

LUNAR

Fill in the blank on other information you should know:

The Earth Revolves around the Sun. The Earth Rotates on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no Atmosphere.

- 2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

- A.) Plate Tectonic situation number 1:



What is formed from the separation of the two continental plates shown above?

Trench

- B.) Plate tectonic situation number 2:



What is formed from the collision of the two continental plates shown above?

Mountain

- 3.) If a small meteor or asteroid enters the Earth's atmosphere what is probably going to happen?

- A.) It gets larger     C.) The meteor gets burned up  
B.) It misses Earth    D.) Nothing happens

- 4.) What is a drought?

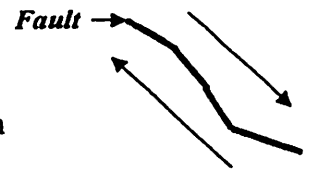
- A.) a period of rain    C.) a strong wind  
B.) a period of NO rain    D.) a deep ditch

- 5.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.

- A.) sedimentary, metamorphic, igneous  
B.) igneous, metamorphic, sedimentary  
 C.) igneous, sedimentary, metamorphic  
D.) erosion, gravity, weathering

- 6.) California has the famous San Andreas Fault. What is formed when one continental plate moves in the opposite direction to the other?

- A.) an earthquake  
B.) electricity  
C.) trench in the ocean  
D.) a mountain



- 7.) An animal has very sharp teeth. What type of food does it most likely eat?

- A.) meat (carnivore)    C.) both meat and plants (omni)  
B.) plants (herbivore)    D.) hamburger with fries

- 8.) What type of material is deposited at river deltas due to the river carrying it downstream?

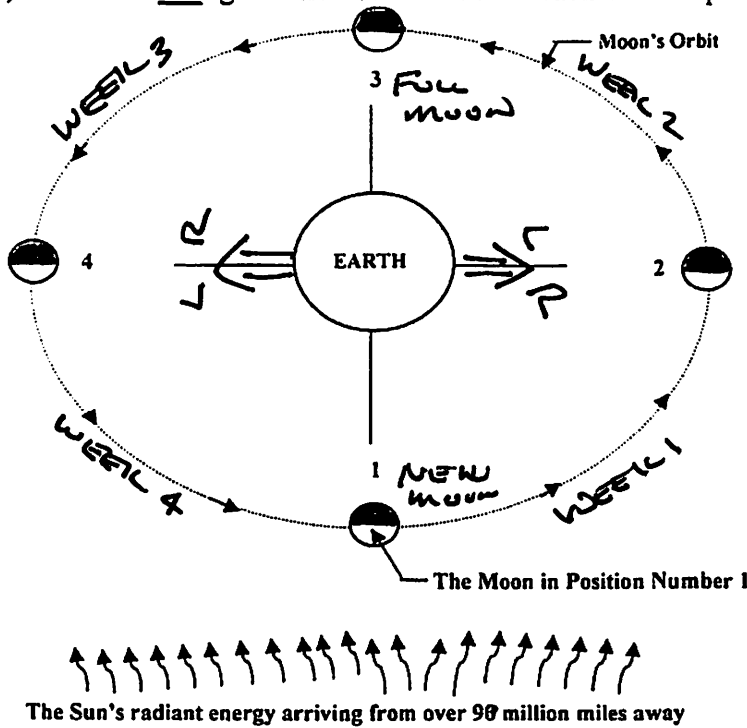
- A.) glacial deposits    C.) big rocks  
 B.) sedimentary (sand) deposits    D.) dead fish

- 9.) Match the correct word or fact on the left with the definition given on the right.

- |                                 |  |
|---------------------------------|--|
| <u>B</u> fossil fuel            | A.) a resource that can be used and replaced very quickly (trees, fish)      |
| <u>A</u> renewable resource     | B.) a fuel formed over many years from living organisms (coal, natural gas)  |
| <u>C</u> inexhaustible resource | C.) resources that CANNOT be used up (wind, sunlight)                        |
| <u>D</u> nonrenewable resource  | D.) a resource that once it is used up, it is gone. (minerals, gold, copper) |
| <u>H</u> igneous rock           | E.) Rock formed due to the <u>deposition</u> of sediments and compacted      |
| <u>E</u> sedimentary rock       | G.) Rock formed due to pressure and heat in the Earth's lithosphere          |
| <u>G</u> metamorphic rock       | H.) Rock formed near volcanoes due to the heat and quick cooling lava.       |

## Fifth Grade Science Warm-up – Number 44

1.) Shade the UNlighted side of the moon at each of the 4 positions with your pencil. Answer the questions below.



a.) What number on the diagram is called the "New Moon" or the moon seen at the beginning of EACH month? 1

b.) What number on the diagram is called the "Harvest Moon" or the moon seen from Earth that is called a FULL MOON halfway through the month? 3

c.) What number on the diagram looks like these shapes from Earth?

4 - What week of month? 3

2 - What week of month? 1

d.) Which number is in the position that under special conditions of the Earth, Moon, and sun's orbit will cause a lunar eclipse? 3  
What about a solar eclipse? 1

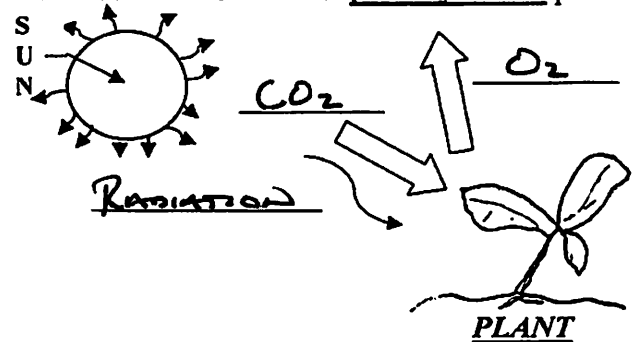
2.) What describes all of the following in the correct order:

- 1.) An animal that eats only meat.
- 2.) A rock found near a volcano.
- 3.) A long period of NO rain
- 4.) An animal that has a backbone or spine.
- 5.) An example of an inherited trait.

- A.) omnivore, igneous, drought, vertebrate, eye color  
 B.) herbivore, igneous, drought, invertebrate, hair color  
 C.) carnivore, igneous, drought, vertebrate, hair style  
**D.) carnivore, igneous, drought, vertebrate, one's height**

3.) Answer the questions on the attached page.

4.) Label all arrows in the photosynthesis process.



6.) What type of animal eats **both** plants and animals ?

- A.) carnivore                      C.) herbivore  
**B.) omnivore**                      D.) Grahamivore

7.) Which is a NOT a learned behavior?

- A.) speaking Spanish              C.) running fast  
**B.) breathing oxygen**              D.) eating with a fork

8.) Match the correct word on the left with the definition given on the right.

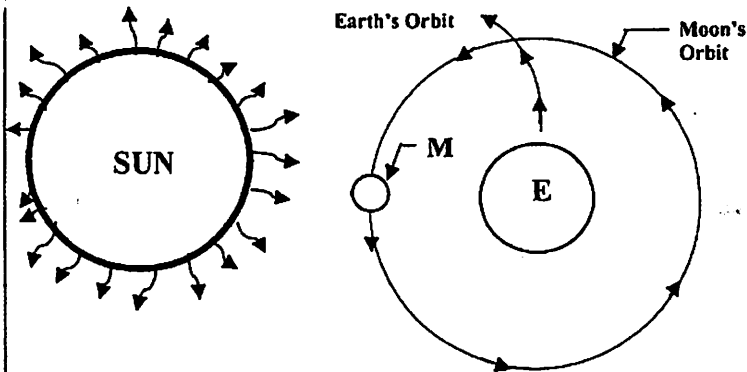
- |   |   |
|---|---|
| <u>H</u> water cycle                      | A.) precipitation that falls over land and enters streams and rivers to the ocean |
| <u>G</u> CO <sub>2</sub> and Oxygen cycle | B.) the Earth's crust shaking caused by two pieces moving in opposite directions  |
| <u>E</u> permeability                     | C.) the sudden downhill movement of a huge mass of rock, soil, and mud            |
| <u>B</u> earthquake                       | D.) to hold within, usually dealing with the holding of water in soil             |
| <u>A</u> run-off                          | E.) ability to allow water to flow into small pore spaces of an object            |
| <u>C</u> landslide                        | G.) the movement of carbon dioxide and oxygen between organisms and air           |
| <u>D</u> retain                           | H.) the change of water between different forms (water, gas, rain) on earth       |



# Fifth Grade Science Warm-up – Number 44 Addendum

1.) What type of ECLIPSE is happening? **Solar** or **Lunar**.

(Hint: Eclipse means "go away")



On the above diagram, is a lunar or solar eclipse happening?

SOLAR

Fill in the blank on other information you should know:

The Earth Revolves around the Sun. The Earth Rotates on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no Atmosphere.

2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

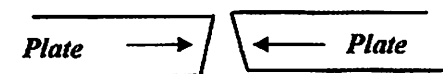
A.) Plate Tectonic situation number 1:



What is formed from the separation of the two continental plates shown above?

Trench

B.) Plate tectonic situation number 2:



What is formed from the collision of the two continental plates shown above?

Mountain

3.) In order to build a large building, a large hole must be dug. The \_\_\_\_\_ is located **farthest** from the surface.

- A.) older rock                      C.) all rock is the same age  
 B.) younger rock                    D.) more beautiful rock

4.) What is a Glacier?

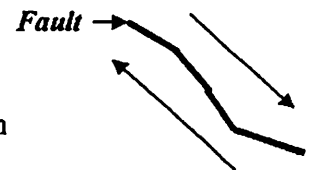
- A.) a slab of concrete                      C.) wind  
 B.) a thick sheet of snow and ice      D.) ice cream

5.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.

- A.) sedimentary, metamorphic, igneous  
 B.) igneous, metamorphic, sedimentary  
 C.) igneous, sedimentary, metamorphic  
 D.) erosion, gravity, weathering

6.) California has the famous San Andreas Fault. What is formed when one continental **plate** moves in the opposite direction to the other?

- A.) an earthquake  
 B.) electricity  
 C.) trench in the ocean  
 D.) a mountain



7.) A dust cloud appears over San Angelo, Texas. This is evidence of \_\_\_\_\_.

- A.) deposits of sediments      C.) weathering by wind  
 B.) soil erosion by wind      D.) weathering by plants

8.) What type of material is deposited at river deltas due to the river carrying it downstream?

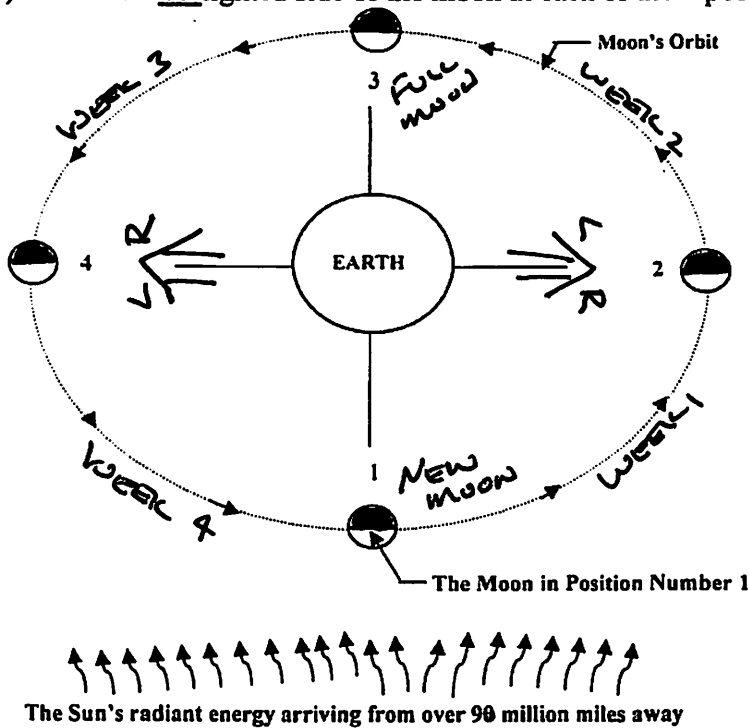
- A.) glacial deposits                      C.) big rocks  
 B.) sedimentary (sand) deposits      D.) dead fish



5.) Match the correct word or fact on the left with the definition given on the right.

- |                                 |  |
|---------------------------------|--|
| <u>B</u> fossil fuel            | A.) a resource that can be used and replaced very quickly (trees, fish)      |
| <u>A</u> renewable resource     | B.) a fuel formed over many years from living organisms (coal, natural gas)  |
| <u>C</u> inexhaustible resource | C.) resources that CANNOT be used up (wind, sunlight)                        |
| <u>D</u> nonrenewable resource  | D.) a resource that once it is used up, it is gone. (minerals, gold, copper) |
| <u>H</u> igneous rock           | E.) Rock formed due to the <u>deposition</u> of sediments and compacted      |
| <u>E</u> sedimentary rock       | G.) Rock formed due to pressure and heat in the Earth's lithosphere          |
| <u>G</u> metamorphic rock       | H.) Rock formed near volcanoes due to the heat and quick cooling lava.       |

## Fifth Grade Science Warm-up – Number 45 – Weekly Test

1.) Shade the UNlighted side of the moon at each of the 4 positions with your pencil. Answer the questions below.



- What number on the diagram is called the "New Moon" or the moon seen at the beginning of EACH month? 1
- What number on the diagram is called the "Harvest Moon" or the moon seen from Earth that is called a FULL MOON halfway through the month? 3
- What number on the diagram looks like these shapes from Earth?
  -  4 - What week of month? 3
  -  2 - What week of month? 1
- Which number is in the position that under special conditions of the Earth, Moon, and sun's orbit will cause a lunar eclipse? 3  
What about a solar eclipse? 1

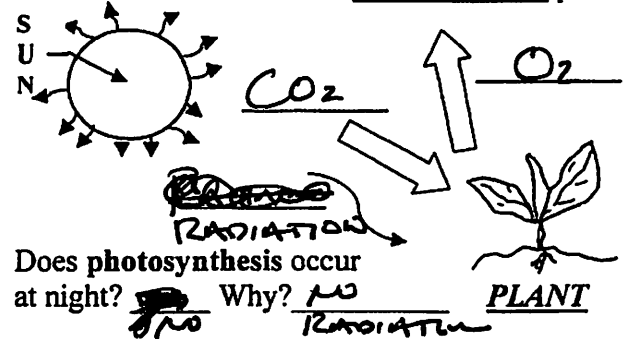
2.) Richard wants to compare textures of two types of soil. Which of the following could he do to test the soil texture?

- Pour water on the soil.
- (B.) Rub the soil between his fingers.
- Mix the soil types together
- Heat the soil.

NOTE: Think what 'texture' means and how it can be test.

3.) Answer the questions on the attached page.

4.) Label all arrows in the photosynthesis process.



6.) Which surface on Earth heats up the fastest?

- high mountains
- oceans
- (C.) land
- polar ice cap

7.) What are type(s) of precipitation?

- snow
- sleet
- rain
- (D.) All of the above

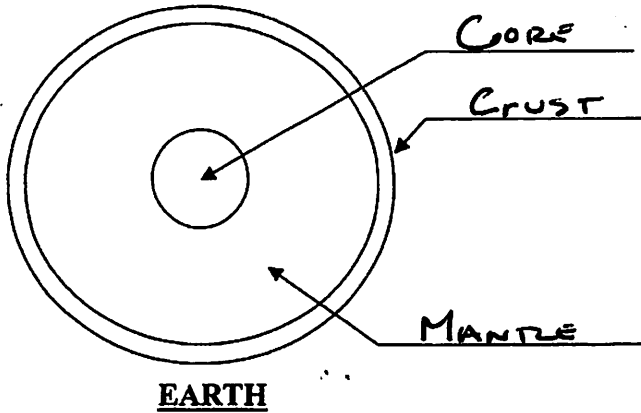
8.) Match the correct word on the left with the definition given on the right.

- |   |   |
|---|---|
| <u>H</u> water cycle                      | A.) precipitation that falls over land and enters streams and rivers to the ocean |
| <u>G</u> CO <sub>2</sub> and Oxygen cycle | B.) the Earth's crust shaking caused by two pieces moving in opposite directions  |
| <u>F</u> permeability                     | C.) the sudden downhill movement of a huge mass of rock, soil, and mud            |
| <u>B</u> earthquake                       | D.) to hold within, usually dealing with the holding of water in soil             |
| <u>A</u> run-off                          | E.) ability to allow water to flow into small pore spaces of an object            |
| <u>C</u> landslide                        | G.) the movement of carbon dioxide and oxygen between organisms and air           |
| <u>D</u> retain                           | H.) the change of water between different forms (water, gas, rain) on earth       |

## Fifth Grade Science Warm-up - Number 45 Addendum

1.) Fill in the diagram using the following words:

Mantle      Crust      Core



The Earth REVOLVES around the Sun. The Earth ROTATES on its axis completely every 24 hours. There is no erosion or weathering of rocks on the moon since it has no Atmosphere.

2.) What will be formed during the following action of two plates in plate tectonic theory?

Possible Answers: Trench or Mountain

A.) Plate Tectonic situation number 1:



What is formed from the separation of the two continental plates shown above?

TRENCH

B.) Plate tectonic situation number 2:



What is formed from the collision of the two continental plates shown above?

MOUNTAIN

3.) In order to build a large building, a large hole must be dug. The \_\_\_\_\_ is located farthest from the surface.

- A.) older rock                      C.) all rock is the same age  
 B.) younger rock                D.) more beautiful rock

4.) What is a Glacier?

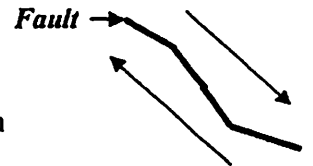
- A.) a slab of concrete                      C.) wind  
 B.) a thick sheet of snow and ice      D.) ice cream

5.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.

- A.) sedimentary, metamorphic, igneous  
 B.) igneous, metamorphic, sedimentary  
 C.) igneous, sedimentary, metamorphic  
 D.) erosion, gravity, weathering

6.) California has the famous San Andreas Fault. What is formed when one continental plate moves in the opposite direction to the other?

- A.) an earthquake  
 B.) electricity  
 C.) trench in the ocean  
 D.) a mountain



7.) A dust cloud appears over San Angelo, Texas. This is evidence of \_\_\_\_\_.

- A.) deposits of sediments      C.) weathering by wind  
 B.) soil erosion by wind        D.) weathering by plants

8.) What type of material is deposited at river deltas due to the river carrying it downstream?

- A.) glacial deposits                      C.) big rocks  
 B.) sedimentary (sand) deposits      D.) dead fish

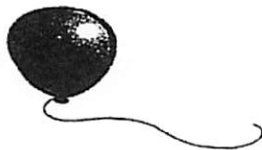
9.) Match the correct word or fact on the left with the definition given on the right.

- |                                 |  |
|---------------------------------|--|
| <u>B</u> fossil fuel            | A.) a resource that can be used and replaced very quickly (trees, fish)      |
| <u>A</u> renewable resource     | B.) a fuel formed over many years from living organisms (coal, natural gas)  |
| <u>C</u> inexhaustible resource | C.) resources that CANNOT be used up (wind, sunlight)                        |
| <u>D</u> nonrenewable resource  | D.) a resource that once it is used up, it is gone. (minerals, gold, copper) |
| <u>H</u> igneous rock           | E.) Rock formed due to the <u>deposition</u> of sediments and compacted      |
| <u>E</u> sedimentary rock       | G.) Rock formed due to pressure and heat in the Earth's lithosphere          |
| <u>G</u> metamorphic rock       | H.) Rock formed near volcanoes due to the heat and quick cooling lava.       |

### Fifth Grade Science Warm-up - Number 46

1.) Which of the following represent an organism?

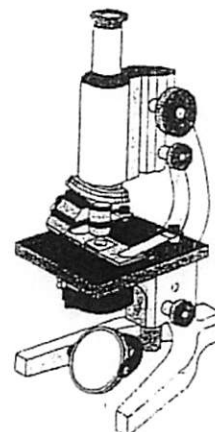
A



B



D



2.) Which of these items would a scientist use to view cells?

A.) telescope

B.) microscope

C.) lawn mower

D.) camera

3.) All living things are made up of \_\_\_\_\_.

A.) wood

B.) air

C.) sound

D.) cells

4.) What describes **ALL** of the following in the correct order:

- 1.) An animal that eats meat and plants.
- 2.) A rock formed due to heat and pressure.
- 3.) A long period of NO rain
- 4.) An animal that has a backbone or spine.
- 5.) An example of an inherited trait.

A.) omnivore, sedimentary, drought, vertebrate, appetite

B.) herbivore, igneous, drought, invertebrate, ear lobe type

C.) omnivore, metamorphic, drought, vertebrate, skin color

D.) carnivore, igneous, drought, vertebrate, one's height

5.) Which feature of a flower **least** helps attract insects and animals to some plants?

A.) odor of the flowers

B.) shape of the flower

C.) color of the flower

D.) weight of the flower

6.) Which of these animals goes through several different forms or stages before it comes an adult?

A.) frog

B.) rattlesnake

C.) mouse

D.) blackbird

7.) What type of animal eats **ONLY** plants?

A.) carnivore

B.) omnivore

C.) herbivore

D.) Cantuivore

8.) Which is an **instinctual behavior**?

A.) speaking Spanish

B.) breathing oxygen

C.) running fast

D.) eating with a fork

9.) Match the correct word on the left with the definition given on the right.

I invertebrate

J vertebrate

A species

B chloroplast

E cell

C nucleus

D organism

G larva

K pupa

H egg

A.) a group of organisms of the same kind that reproduce offspring like themselves

B.) the green cell part in plant cells that traps and uses sunlight and carbon dioxide

C.) the part of a cell that controls the cell's activities

D.) a living thing

E.) the smallest living part of an organism

G.) the small worm like stage in the life cycle of some insects

H.) the first stage of most organisms

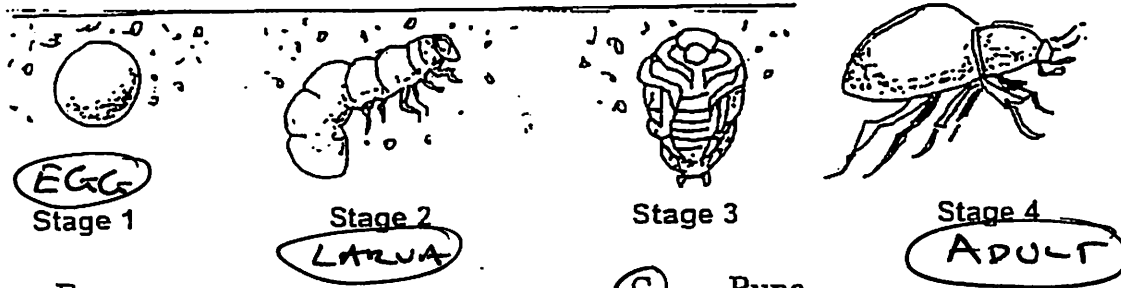
I.) an animal that has no backbone

J.) an animal that has a backbone

K.) the stage in the life cycle of some insects that change from a larva to an adult

- SOLUTION -  
Fifth Grade Science Warm-up – Number 47

1.) The drawings below represent each stage of life of a beetle. Which stage of life is number 3?



A Egg

B Larva

C Pupa

D Adult

2.) Which of these items would a scientist use to view stars?

- A) telescope  
B.) microscope

- C.) lawn mower  
D.) camera

3.) All living things are made up of \_\_\_\_\_.

- A.) cells  
B.) air

- C.) sound  
D.) smoke

4.) What describes ALL of the following in the correct order:

- 1.) An animal that eats ONLY plants.
- 2.) A rock formed due to depositing small sediment.
- 3.) A long period of NO rain
- 4.) An animal that has a backbone or spine.
- 5.) An example of an inherited trait.

- A.) herbivore, sedimentary, drought, vertebrate, nose shape  
B.) herbivore, igneous, drought, invertebrate, hair style  
C.) omnivore, metamorphic, drought, vertebrate, skin color  
D.) carnivore, igneous, drought, vertebrate, one's height

5.) Which feature of a flower least helps attract insects and animals to some plants?

- A.) odor of the flowers      C.) color of the flower  
B.) shape of the flower       D.) weight of the flower

6.) Which of these animals goes through several different forms or stages before it comes an adult?

- A.) frog      C.) mouse  
B.) rattlesnake      D.) blackbird

7.) What animal hibernates?

~~X~~ penguin

~~B~~ the school's principal

rattlesnakes,  
bears do!

~~A~~ gopher

~~D~~ bumblebee

8.) Which is a NOT a learned behavior?

A.) speaking Chinese

B.) breathing oxygen

C.) good study habits

D.) eating with a fork

9.) Match the correct word on the left with the definition given on the right.

I invertebrate

J vertebrate

A species

B chloroplast

E cell

C nucleus

D organism

G larva

K pupa

H egg

A.) a group of organisms of the same kind that reproduce offspring like themselves

B.) the green cell part in plant cells that traps and uses sunlight and carbon dioxide

C.) the part of a cell that controls the cell's activities

D.) a living thing

E.) the smallest living part of an organism

G.) the small worm like stage in the life cycle of some insects

H.) the first stage of most organisms

I.) an animal that has no backbone

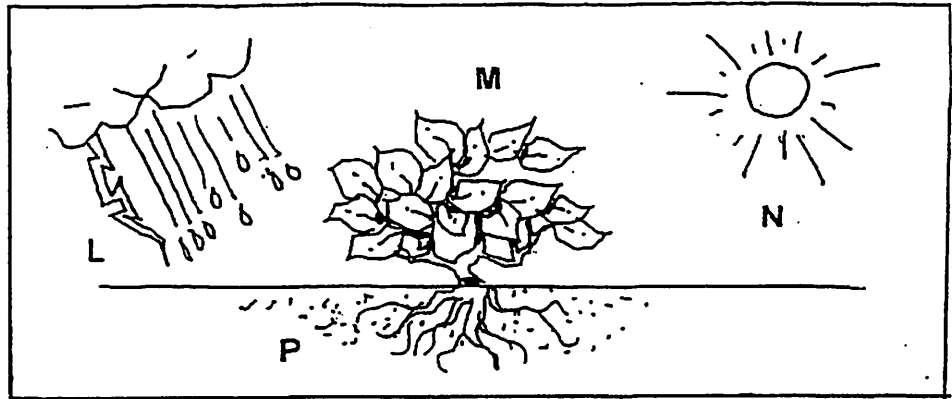
J.) an animal that has a backbone

K.) the stage in the life cycle of some insects that change from a larva to an adult

Fifth Grade Science Warm-up – Number 48

1.) What does L represent in the drawing below?

- A) Precipitation
- B) Energy
- C) Weathering
- D) Oxygen



2.) Which of these items would a scientist use to view cells?

- A.) telescope
- B.) microscope
- C.) lawn mower
- D.) camera

3.) All living things are made up of \_\_\_\_\_.

- A.) wood
- B.) air
- C.) sound
- D.) cells

4.) What describes ALL of the following in the correct order:

- 1.) An animal that eats ONLY plants.
- 2.) A rock formed near a volcano.
- 3.) A long period of NO rain
- 4.) An animal that has NO backbone or spine.
- 5.) An example of an inherited trait.

- A.) omnivore, sedimentary, drought, vertebrate, appetite
- B.) herbivore, igneous, drought, invertebrate, ear lobe type
- C.) omnivore, metamorphic, drought, vertebrate, skin color
- D.) carnivore, igneous, drought, vertebrate, one's height

5.) How are some flowers **pollinated** to reproduce?

- A.) bees
- B.) seeds from the flower
- C.) wind
- D.) All of the above

6.) Which of these animals goes through several different forms or stages before it comes an adult?

- A.) frog
- B.) rattlesnake
- C.) mouse
- D.) blackbird

7.) A bear eats from a garbage can. This behavior is called?

- A.) poor dietary habits
- B.) adaptation to its environment
- C.) garbivore
- D.) disgusting

8.) Which of the following is a **learned behavior**?

- A.) speaking Spanish
- B.) avoiding danger
- C.) eating with a fork
- D.) All of the above

9.) Match the correct word on the left with the definition given on the right.

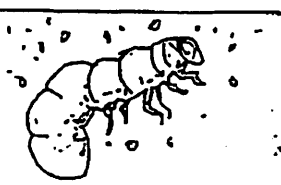
- |                       |  |
|-----------------------|--|
| <u>I</u> invertebrate | A.) a group of organisms of the same kind that reproduce offspring like themselves     |
| <u>J</u> vertebrate   | B.) the green cell part in plant cells that traps and uses sunlight and carbon dioxide |
| <u>A</u> species      | C.) the part of a cell that controls the cell's activities                             |
| <u>B</u> chloroplast  | D.) a living thing   |
| <u>E</u> cell         | E.) the smallest living part of an organism  |
| <u>C</u> nucleus      | G.) the small worm like stage in the life cycle of some insects                        |
| <u>D</u> organism     | H.) the first stage of most organisms  |
| <u>G</u> larva        | I.) an animal that has no backbone   |
| <u>K</u> pupa         | J.) an animal that has a backbone  |
| <u>H</u> egg          | K.) the stage in the life cycle of some insects that change from a larva to an adult   |

## Fifth Grade Science Warm-up – Number 49

1.) The drawings below represent each stage of life of a beetle. Which stage of life is number 2?



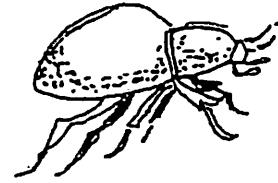
Stage 1



Stage 2



Stage 3



Stage 4

A Egg

B Larva

C Pupa

D Adult

2.) Which of these items would a scientist use to view stars?

- A.) telescope  
B.) microscope

- C.) lawn mower  
D.) camera

3.) All living things are made up of \_\_\_\_\_.

- A.) cells  
B.) air

- C.) sound  
D.) smoke

4.) What describes ALL of the following in the correct order:

- 1.) An animal that eats ONLY plants.
- 2.) A rock formed due to depositing small sediment.
- 3.) A long period of NO rain
- 4.) An animal that has a backbone or spine.
- 5.) An example of an inherited trait.

- A.) herbivore, sedimentary, drought, vertebrate, nose shape  
B.) herbivore, igneous, drought, invertebrate, hair style  
C.) omnivore, metamorphic, drought, vertebrate, skin color  
D.) carnivore, igneous, drought, vertebrate, one's height

5.) Which feature of a flower least helps attract insects and animals to some plants?

- A.) odor of the flowers      C.) color of the flower  
B.) shape of the flower       D.) weight of the flower

6.) Which of these animals goes through several different forms or stages before it comes an adult?

- A.) frog      C.) mouse  
B.) rattlesnake      D.) blackbird

7.) What type of animal hibernates during the winter months?

- A.) penguin      *Connect Student Copy*  
B.) central office curriculum      C.) *Beaver* ground squirrel  
D.) insect

8.) Which is NOT a learned behavior?

- A.) speaking Chinese      C.) good study habits  
 B.) breathing oxygen      D.) eating with a fork

9.) Match the correct word on the left with the definition given on the right.

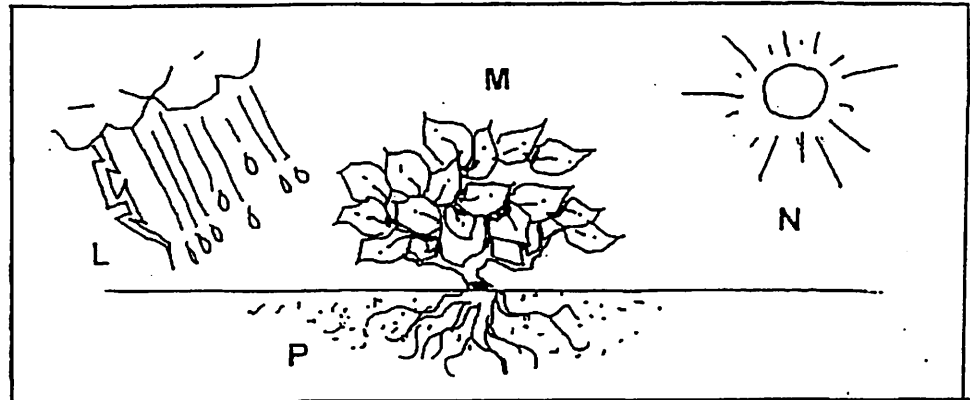
- I invertebrate  
J vertebrate  
A species  
B chloroplast  
E cell  
C nucleus  
D organism  
G larva  
K pupa  
H egg

- A.) a group of organisms of the same kind that reproduce offspring like themselves  
B.) the green cell part in plant cells that traps and uses sunlight and carbon dioxide  
C.) the part of a cell that controls the cell's activities  
D.) a living thing  
E.) the smallest living part of an organism  
G.) the small worm like stage in the life cycle of some insects  
H.) the first stage of most organisms  
I.) an animal that has no backbone  
J.) an animal that has a backbone  
K.) the stage in the life cycle of some insects that change from a larva to an adult

# Fifth Grade Science Warm-up – Number 50 – Weekly Test

1.) What does N represent in the drawing below?

- A Precipitation
- B Energy
- C Weathering
- D Oxygen



2.) Which of these items would a scientist use to view cells?

- A.) telescope
- B.) microscope
- C.) lawn mower
- D.) camera

3.) All living things are made up of \_\_\_\_\_.

- A.) wood
- B.) air
- C.) sound
- D.) cells

4.) What describes ALL of the following in the correct order:

- 1.) An animal that eats ONLY plants.
- 2.) A rock formed near a volcano.
- 3.) A long period of NO rain
- 4.) An animal that has NO backbone or spine.
- 5.) An example of an inherited trait.

- A.) omnivore, sedimentary, drought, vertebrate, appetite
- B.) herbivore, igneous, drought, invertebrate, ear lobe type
- C.) omnivore, metamorphic, drought, vertebrate, skin color
- D.) carnivore, igneous, drought, vertebrate, one's height

5.) How are some flowers **pollinated** to reproduce?

- A.) bees
- B.) seeds from the flower
- C.) wind
- D.) All of the above

6.) Which of these animals goes through several different forms or stages before it comes an adult?

- A.) frog
- B.) rattlesnake
- C.) mouse
- D.) blackbird

7.) A bear eats from a garbage can. This behavior is called?

- A.) poor dietary habits
- B.) adaptation to its environment
- C.) garbivore
- D.) disgusting

8.) Which is an example of a **learned behavior**?

- A.) speaking Spanish
- B.) avoiding danger
- C.) eating with a fork
- D.) All of the above

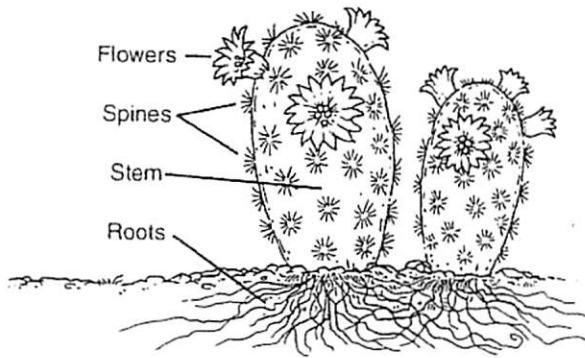
9.) Match the correct word on the left with the definition given on the right.

- |                       |  |
|-----------------------|--|
| <u>I</u> invertebrate | A.) a group of organisms of the same kind that reproduce offspring like themselves     |
| <u>J</u> vertebrate   | B.) the green cell part in plant cells that traps and uses sunlight and carbon dioxide |
| <u>A</u> species      | C.) the part of a cell that controls the cell's activities                             |
| <u>B</u> chloroplast  | D.) a living thing   |
| <u>E</u> cell         | E.) the smallest living part of an organism  |
| <u>C</u> nucleus      | G.) the small worm like stage in the life cycle of some insects                        |
| <u>D</u> organism     | H.) the first stage of most organisms  |
| <u>G</u> larva        | I.) an animal that has no backbone   |
| <u>K</u> pupa         | J.) an animal that has a backbone  |
| <u>H</u> egg          | K.) the stage in the life cycle of some insects that change from a larva to an adult   |



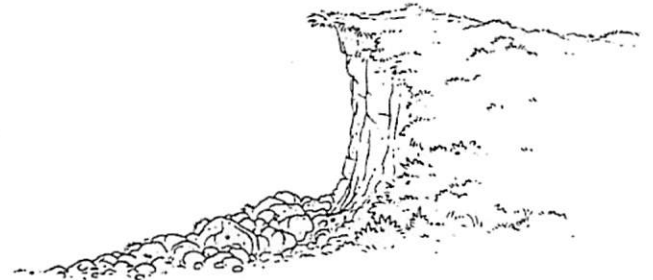
## Fifth Grade Science Warm-up – Number 51

1.) What characteristic of the cacti shown below helps the plant to take in water quickly in the dry desert environment?



- A.) stem  
 B.) roots  
 C.) spines  
 D.) flowers

2.) The pile of soil and rock at the bottom of the cliff below is the direct result of \_\_\_\_\_.



- A.) erosion  
 B.) pollution  
 C.) evaporation  
 D.) condensation

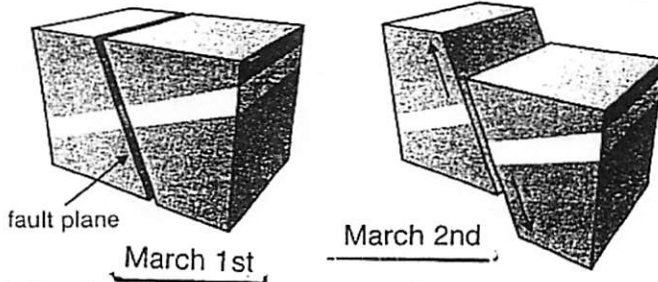
3.) Which of these resources produces solar energy?

- A.) sun  
 B.) oil well  
 C.) moon  
 D.) ocean

4.) Which of the following is a renewable resource?

- A.) oil  
 B.) coal  
 C.) soil  
 D.) gasoline

5.) The diagram below shows a landscape on two consecutive days. What is most likely to have caused the change?



- A.) flood  
 B.) glacier  
 C.) volcano  
 D.) earthquake

6.) Which feature of a flower least helps attract insects and animals to some plants?

- A.) odor of the flowers  
 B.) shape of the flower  
 C.) color of the flower  
 D.) weight of the flower

7.) A bear lives near a city. He eats garbage out of a garbage can. What best describes this behavior?

- A.) not too picky  
 B.) ecosystem  
 C.) biome  
 D.) adaptation

8.) What type animal tracks and eats other animals?

- A.) producer  
 B.) omnivore  
 C.) predator  
 D.) herbivore

9.) An animal blends into its surrounding and is \_\_\_\_\_.

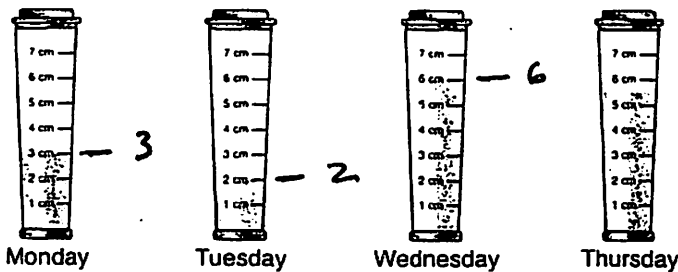
- A.) using camouflage.  
 B.) breathing oxygen.  
 C.) running fast.  
 D.) eating with a fork.

10.) Match the correct word on the left with the definition given on the right.

- |                          |  |
|--------------------------|--|
| <u>G</u> inherited trait | A.) the <u>environment or the place</u> where an organism (a living thing) lives         |
| <u>D</u> adaptation      | B.) a very large area of land with a type of climate and certain types of organisms live |
| <u>E</u> ecosystem       | C.) the way an animal <u>blends in</u> to its environment using its natural colors       |
| <u>B</u> biome           | D.) a behavior of an animal that helps the animal survive in its surroundings            |
| <u>C</u> camouflage      | E.) all the living and <u>NONliving</u> 'things' in an area.                             |
| <u>H</u> drought         | G.) a characteristic that is passed from parents to their offspring (children)           |
| <u>J</u> producer        | H.) a period of no rain and many crops and animals may die                               |
| <u>I</u> consumer        | I.) an organism that gets energy by <u>EATING</u> other organisms or a woman shopping.   |
| <u>K</u> decomposer      | J.) an organism that makes its own food (Example: a plant)                               |
| <u>A</u> habitat         | K.) an organism that gets energy by feeding on <u>dead materials and waste</u>           |

## Fifth Grade Science Warm-up – Number 52

1.) A boy decided to keep track of the rainfall at his house during a rainy week. The results are shown below. About how many centimeters of rain fell on Monday, Tuesday, and Wednesday? Record your results on the grid.



	1	1	.
0	0	0	
1	●	●	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

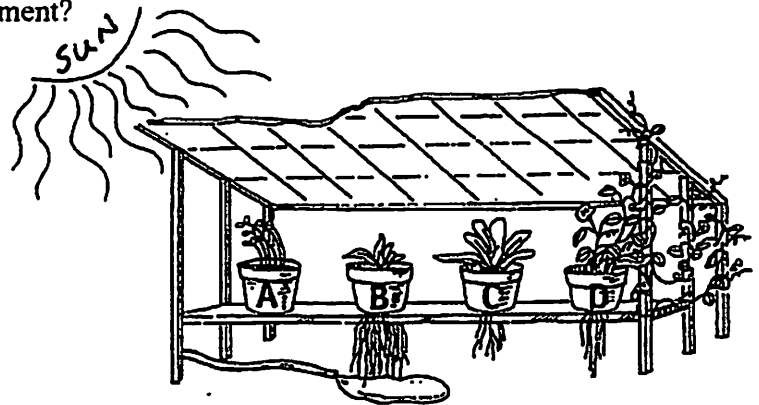
2.) You are conducting an experiment in which you take three identical plants and water them with different substances. The results are listed in the table below. What can you conclude from this experiment?

- A.) Plants that are given only soda will die.
- B.) Plants will grow only if you give them tap water.
- C.)** Plants that are given only soda water will not grow very well.
- D.) Plants that are given spring water will grow forever

Liquid used to water plant	Beginning height of plant (centimeters)	Height after one week (centimeters)	Height after two weeks (centimeters)
tap water	8	10	14
spring water	8	13	16
soda	8	8	9

3.) How has plant D adapted to survive in its environment?

- A.)** Plant D has tendrils (vines) that climb to reach sunlight
- B.) Plant D has an extra long root system.
- C.) Plant D has spines to protect itself.
- D.) Plant D produces beautiful flowers

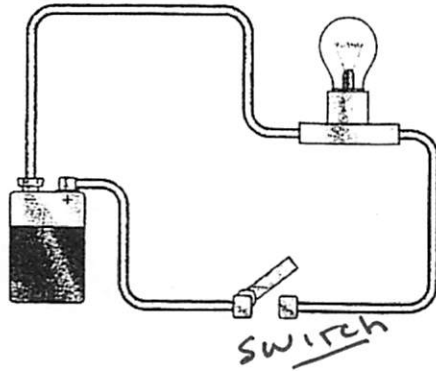


4.) Match the correct word on the left with the definition given on the right.

- |                          |  |
|--------------------------|--|
| <b>G</b> inherited trait | A.) the <u>environment or the place</u> where an organism (a living thing) lives         |
| <b>D</b> adaptation      | B.) a very large area of land with a type of climate and certain types of organisms live |
| <b>E</b> ecosystem       | C.) the way an animal <u>blends in</u> to its environment using its natural colors       |
| <b>B</b> biome           | D.) a behavior of an animal that helps the animal survive in its surroundings            |
| <b>C</b> camouflage      | E.) all the living and <b>NON</b> living 'things' in an area.                            |
| <b>H</b> drought         | G.) a characteristic that is passed from parents to their offspring (children)           |
| <b>J</b> producer        | H.) a period of no rain and many crops and animals may die                               |
| <b>I</b> consumer        | I.) an organism that gets energy by <b>EATING</b> other organisms or a woman shopping.   |
| <b>K</b> decomposer      | J.) an organism that makes its own food (Example: a plant)                               |
| <b>A</b> habitat         | K.) an organism that gets energy by feeding on <u>dead materials and waste</u>           |

### Fifth Grade Science Warm-up – Number 53

1.) What should the student do to make the light come on?



- A.) close the lever on the switch
- B.) unscrew the light bulb
- C.) disconnect wires
- D.) none of the above

2.) Which parts of a polar bear allow it to live in a biome (frigid environment) like the arctic?



- A.) large paws
- B.) white color
- C.) thick fur and body fat
- D.) strong legs

3.) Which of these resources produces radiant energy?

- A.) sun
- B.) fire
- C.) light bulb
- D.) all of the above

4.) Which of the following is a fossil fuel?

- A.) oil
- B.) solar energy
- C.) soil
- D.) trees

5.) Which characteristic has enabled coyotes to survive and increase in number in today's environment?



- A.) sly
- B.) quick
- C.) ability to adapt
- D.) good hunter

6.) A plant may be classified as a \_\_\_\_\_.

- A.) producer
- B.) decomposer
- C.) consumer
- D.) chloroplast

7.) The formation of winds on the Earth's surface is most influenced by \_\_\_\_\_.

- A.) the sun
- B.) fish
- C.) the moon
- D.) asteroids

8.) What type animal is eaten by a predator?

- A.) prey
- B.) earth
- C.) sun
- D.) moon

9.) An animal blends into its surrounding and is \_\_\_\_\_.

- A.) using camouflage.
- B.) breathing oxygen.
- C.) running fast.
- D.) eating with a fork.

10.) Match the correct word on the left with the definition given on the right.

- |                          |  |
|--------------------------|--|
| <u>G</u> inherited trait | A.) the <u>environment or the place</u> where an organism (a living thing) lives         |
| <u>D</u> adaptation      | B.) a very large area of land with a type of climate and certain types of organisms live |
| <u>E</u> ecosystem       | C.) the way an animal <u>blends in</u> to its environment using its natural colors       |
| <u>B</u> biome           | D.) a behavior of an animal that helps the animal survive in its surroundings            |
| <u>C</u> camouflage      | E.) all the living and NONliving 'things' in an area.                                    |
| <u>H</u> drought         | G.) a characteristic that is passed from parents to their offspring (children)           |
| <u>J</u> producer        | H.) a period of no rain and many crops and animals may die                               |
| <u>I</u> consumer        | I.) an organism that gets energy by EATING other organisms or a woman shopping.          |
| <u>K</u> decomposer      | J.) an organism that makes its own food (Example: a plant)                               |
| <u>A</u> habitat         | K.) an organism that gets energy by feeding on <u>dead materials and waste</u>           |

## Fifth Grade Science Warm-up – Number 54

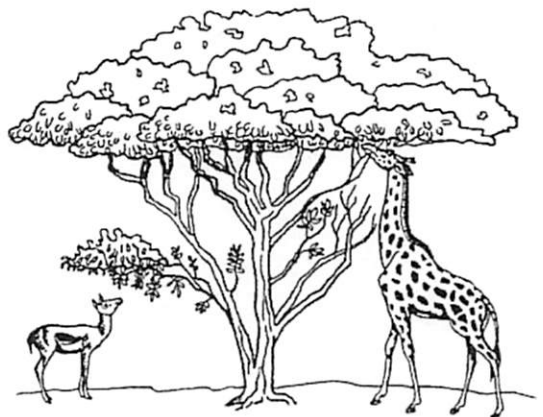
1.) Study this picture.



Which statement is true about the rabbits?

- A.) The baby rabbits are black because of traits they inherited from their parents.
- B.) The adult (parent) rabbits and the baby rabbits are all black because they eat the same food.
- C.) The adult (parent) rabbits are black because of traits they inherited from the baby rabbits.
- D.) The baby rabbits are black because of traits they inherited from their brothers and sisters.

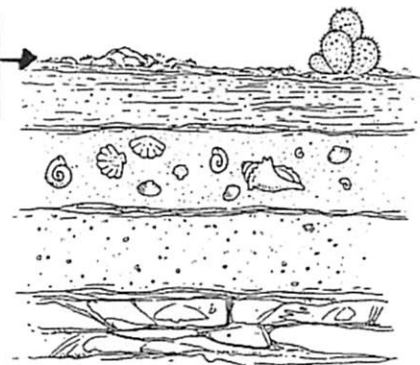
2.) The giraffe and antelope below feed from the same tree. Which prevents the two from competing for food?



- A.) The antelope controls the territory or area of the tree.
- B.) The giraffe is stronger than the antelope.
- C.) The two animals feed from different parts of the same tree.
- D.) The antelope eats much less than the giraffe.

3.) A section of sedimentary rock layers is exposed to a dry desert area. Based on the fossils found in the rock layers, what can you infer about this area?

Top of rock layer (desert)



- A.) The area was once a rainforest.
- B.) The area was once covered by an ocean.
- C.) The area was once a mountain top.
- D.) The area has always been a desert.

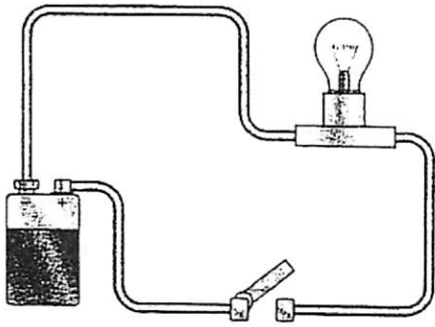
4.) Match the correct word on the left with the definition given on the right.

- G inherited trait
- D adaptation
- E ecosystem
- B biome
- C camouflage
- H drought
- J producer
- F consumer
- K decomposer
- A habitat

- A.) the environment or the place where an organism (a living thing) lives
- B.) a very large area of land with a type of climate and certain types of organisms live
- C.) the way an animal blends in to its environment using its natural colors
- D.) a behavior of an animal that helps the animal survive in its surroundings
- E.) all the living and NONliving 'things' in an area.
- G.) a characteristic that is passed from parents to their offspring (children)
- H.) a period of no rain and many crops and animals may die
- I.) an organism that gets energy by EATING other organisms or a woman shopping.
- J.) an organism that makes its own food (Example: a plant)
- K.) an organism that gets energy by feeding on dead materials and waste

# 5th Grade Science Warm-up - Number 55 - Weekly Test

1.) What should the student do to make the light come on?



- A.) close the lever on the switch
- B.) unscrew the light bulb
- C.) disconnect wires
- D.) none of the above

2.) Which parts of a polar bear allow it to live in a biome (frigid environment) like the arctic?



- A.) large paws
- B.) white color
- C.) thick fur and body fat
- D.) strong legs

3.) Which of these resources produces radiant energy?

- A.) sun
- B.) fire
- C.) light bulb
- D.) all of the above

4.) Which of the following is a fossil fuel?

- A.) oil
- B.) solar energy
- C.) soil
- D.) trees

5.) Which characteristic has enabled coyotes to survive and increase in number in today's environment?



- A.) sly
- B.) quick
- C.) ability to adapt
- D.) good hunter

6.) A plant may be classified as a \_\_\_\_\_.

- A.) producer
- B.) decomposer
- C.) consumer
- D.) chloroplast

7.) The formation of winds on the Earth's surface is most influenced by \_\_\_\_\_.

- A.) the sun
- B.) fish
- C.) the moon
- D.) asteroids

8.) What type animal is eaten by a predator?

- A.) prey
- B.) earth
- C.) sun
- D.) moon

9.) An animal blends into its surrounding and is \_\_\_\_\_.

- A.) using camouflage.
- B.) breathing oxygen.
- C.) running fast.
- D.) eating with a fork.

10.) Match the correct word on the left with the definition given on the right.

- |                          |  |
|--------------------------|--|
| <u>G</u> inherited trait | A.) the <u>environment</u> or the <u>place</u> where an organism (a living thing) lives  |
| <u>D</u> adaptation      | B.) a very large area of land with a type of climate and certain types of organisms live |
| <u>E</u> ecosystem       | C.) the way an animal <u>blends in</u> to its environment using its natural colors       |
| <u>B</u> biome           | D.) a behavior of an animal that helps the animal survive in its surroundings            |
| <u>C</u> camouflage      | E.) all the living and NONliving 'things' in an area.                                    |
| <u>H</u> drought         | G.) a characteristic that is passed from parents to their offspring (children)           |
| <u>J</u> producer        | H.) a period of no rain and many crops and animals may die                               |
| <u>I</u> consumer        | I.) an organism that gets energy by EATING other organisms or a woman shopping.          |
| <u>K</u> decomposer      | J.) an organism that makes its own food (Example: a plant)                               |
| <u>A</u> habitat         | K.) an organism that gets energy by feeding on <u>dead materials</u> and waste           |

# Fifth Grade Science Warm-up - Number 56

USE the graph on the right to answer questions 1 and 2 below.

1.) The graph can be interpreted in the Earth's atmosphere as showing that \_\_\_\_\_.

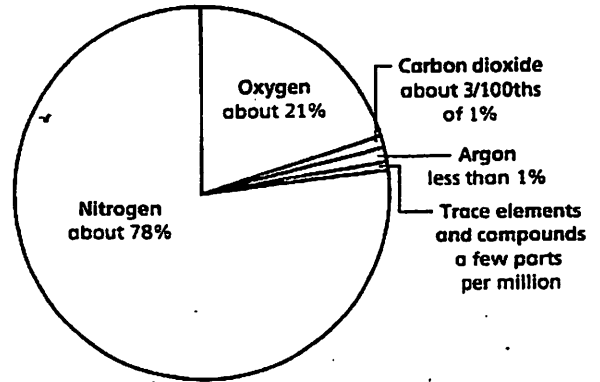
- A.) Air is a mixture that contains about three-fourths nitrogen.
- B.) The Earth's atmosphere is heavily polluted.
- C.) Carbon dioxide is increasing in the atmosphere.
- D.) Oxygen is the most abundant element in atmosphere.

2.) Most of the nitrogen stored in the atmosphere is a \_\_\_\_\_.

- A.) liquid
- C.) gas
- B.) solid
- D.) protein

*stress*  
↓

Composition of Air



3.) How many variables are changed in an experiment?  1

4.) Answer the questions that are attached.

5.) A magnet attracts which of the following?

- A.) Paperclips
- C.) a magnet
- B.) Iron filings, nickel, steel
- D.) All of the above

6.) Which of these items is a conductor in science?

- A.) wood
- C.) metal plate
- B.) train engineer
- D.) glass

7.) What describes ALL of the following in the correct order:

- 1.) A rock where a fossil is formed near a river delta.
  - 2.) A rock formed due to heat and pressure.
  - 3.) An insulator (does NOT conduct electricity well)
  - 4.) A fossil fuel and a nonrenewable resource.
  - 5.) An inexhaustible resource.
- A.) sedimentary, metamorphic, metal, natural gas, sunlight
  - B.) igneous, sedimentary, glass, oil, wind
  - C.) sedimentary, metamorphic, rubber, oil, sunlight
  - D.) sedimentary, igneous, rubber, coal, wind

8.) A frog eats insects. Which direction does the arrow point in a food chain?

- A.) toward the insect
  - B.) toward the frog
  - C.) toward the Sun
  - D.) All of the above
- energy transferred*

9.) An animal will defend which of the following?

- A.) offspring/mate
- B.) food/water
- C.) territory (space)
- D.) All of the above

10.) What gas is emitted (comes out) during photosynthesis?

- A.) carbon dioxide
- C.) oxygen
- B.) sunlight
- D.) nitrogen

11.) Which of the following is a chemical change?

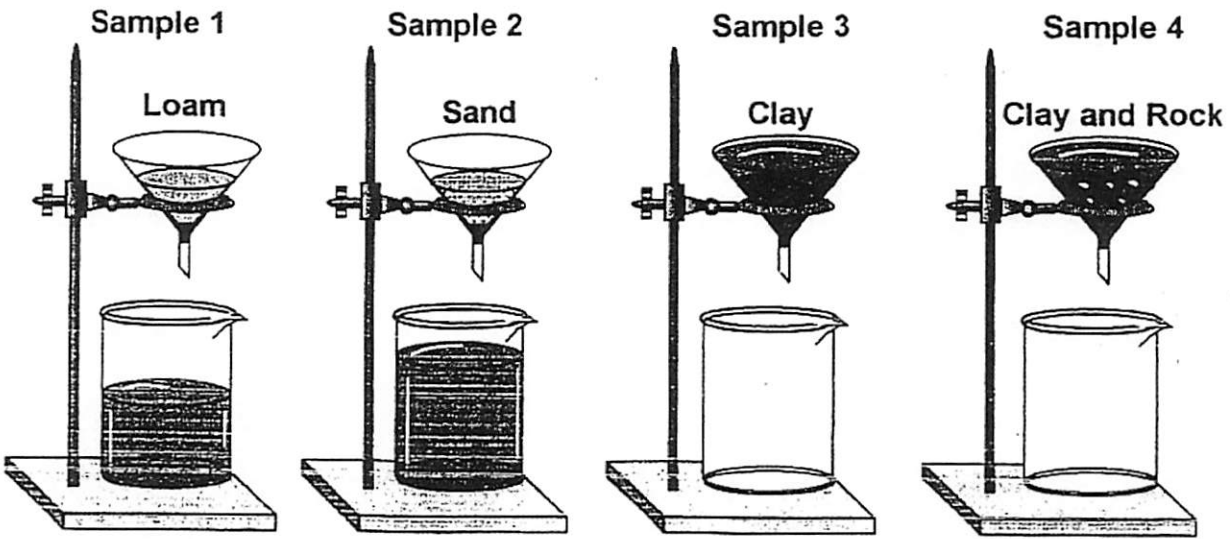
- A.) growing taller
- B.) burning a matchstick
- C.) cutting cheese
- D.) All of the above

12.) Match the correct word on the left with the correct definition given on the right.

- |                      |   |
|----------------------|---|
| <u>D</u> instinctive | A.) a habitat or a place where an animal is safe                            |
| <u>K</u> food web    | B.) to die  |
| <u>J</u> food chain  | C.) to do well or be successful   |
| <u>H</u> biome       | D.) description of behaviors that are inherited                             |
| <u>C</u> thrive      | E.) children  |
| <u>B</u> perish      | G.) a group of organisms that produce offspring like themselves             |
| <u>A</u> community   | H.) populations of different species that live in the same area             |
| <u>F</u> offspring   | I.) one of the six major land areas defined by climate (Ex. Desert, Tundra) |
| <u>G</u> species     | J.) the path of energy from the sun to a plant to animals                   |
| <u>A</u> shelter     | K.) a group of overlapping food chains                                      |
| <u>L</u> burrow      | L.) to dig or IT can refer to a ground animal like a gopher's home/habitat  |

## Fifth Grade Science Warm-up – Number 56 Addendum

Use the information below and your knowledge of science to help you answer questions 1 and 2 below. Four soil samples were tested to see how much water would filter (pass) through them.



- 1.) Which soil sample allows the most water to pass through it?
- A.) Loam                      C.) Sand  
B.) Clay                      D.) Clay and Rock
- 2.) Few plants could grow if planted in clay soil because \_\_\_\_.
- A.) The Sun did not shine on the plants.  
B.) Too much water would get to the roots of the plants.  
C.) The water would not get to the roots of the plants.

- 3.) In order to hear any sound that is made, there must be \_\_\_\_ that produce waves in the air that reach your \_\_\_\_.
- A.) rotations, eyes            C.) vibrations, ears  
B.) rotations, ears            D.) vibrations, eyes

- 4.) Which of the following is true?
- A.) Soil is not a natural resource.  
B.) Soil is an inexhaustible resource.  
C.) Soil is a renewable resource.

- 5.) In order to build a large building, a deep hole must be dug. The \_\_\_\_ is located **farthest** from the surface.
- A.) older rock                      C.) all rock is the same age  
B.) younger rock                  D.) more beautiful rock

- 6.) What is a **Glacier**?
- A.) a slab of concrete                      C.) wind  
B.) a thick sheet of snow and ice        D.) ice cream

- 7.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.
- A.) sedimentary, metamorphic, igneous  
B.) igneous, metamorphic, sedimentary  
C.) igneous, sedimentary, metamorphic  
D.) erosion, gravity, weathering

- 8.) California has the famous San Andreas Fault. What is formed when one continental **plate** moves in the opposite direction to the other?
- A.) an earthquake  
B.) electricity  
C.) trench in the ocean  
D.) a mountain
- 
- The diagram shows a fault line with two arrows pointing in opposite directions, indicating that the plates on either side are moving apart.

- 9.) A dust cloud appears over San Angelo, Texas. This is evidence of \_\_\_\_.
- A.) deposits of rocks                      C.) weathering by wind  
B.) soil erosion by wind                  D.) weathering by plants

- 10.) What type of material is deposited at river deltas due to the river carrying it downstream?
- A.) glacial deposits                      C.) big rocks  
B.) sedimentary (sand) deposits        D.) dead fish

## Fifth Grade Science Warm-up – Number 57

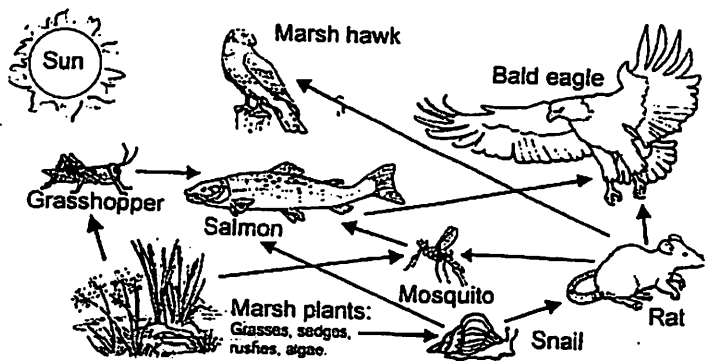
USE the diagram to the right to answer questions 1, 2 and 3 below.

1.) Based on the diagram, a mosquito is a \_\_\_\_\_

- A.) niche                      B.) producer  
 B.) omnivore                  D.) carnivore

2.) If the snail population disappeared, it could cause all of the following EXCEPT?

- A.) a decrease in salmon population Y  
 B.) an increase in the grasshopper population Y  
 C.) an increase in the rat population N  
 D.) an increase in the plant population Y



3.) Which of the following best describes the niche of the salmon in the ecosystem shown in the diagram (NOTE: niche means what an organism does in the ecosystem)

- A.) The salmon is consumed (eaten) by hawks and eagles, and the salmon consumes (eats) the snails.  
 B.) The salmon consumes (eats) plants and rats, and the salmon is consumed (eaten) by the eagle and hawks.  
 C.) The salmon consumes (eats) mosquitoes, snails, and grasshoppers. The salmon is consumed (eaten) by eagles.  
 D.) The salmon consumes (eats) eagles, and the salmon consumed (eaten) by marsh plants.

4.) How many variables are changed in an experiment?  1

5.) Answer the questions that are attached.

6.) What describes ALL of the following in the correct order:

7.) A wolf eats deer. Which direction does the arrow point in a food chain?

- 1.) A rock where a fossil is formed near a river delta.
- 2.) A rock formed due to heat and pressure.
- 3.) An insulator (does NOT conduct electricity well)
- 4.) A fossil fuel and a nonrenewable resource.
- 5.) A renewable resource.

- A.) toward the wolf                  C.) toward the Sun  
 B.) toward the deer                  D.) All of the above

- A.) sedimentary, metamorphic, metal, natural gas, sunlight  
 B.) igneous, sedimentary, glass, oil, wind  
 C.) sedimentary, metamorphic, rubber, oil, soil  
 D.) sedimentary, igneous, rubber, coal, wind

8.) An animal will defend which of the following?

- A.) offspring/mate                  C.) territory (space)  
 B.) food/water                       D.) All of the above

9.) What gas is goes IN to the leaf during photosynthesis?  
 A.) carbon dioxide                  C.) oxygen  
 B.) sunlight                          D.) nitrogen

10.) Which of the following is a physical change?  
 A.) growing taller                  C.) cutting cheese  
 B.) pouring milk in a cup         D.) All of the above

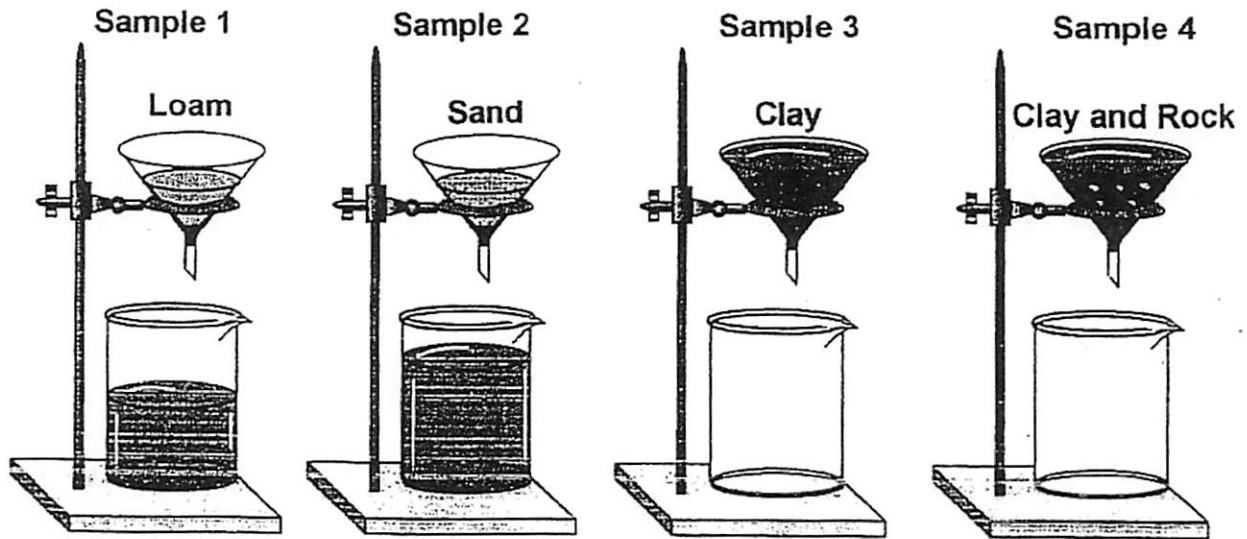
12.) Match the correct word on the left with the correct definition given on the right.

- |                      |   |
|----------------------|---|
| <u>D</u> instinctive | A.) a habitat or a place where an animal is safe                            |
| <u>K</u> food web    | B.) to die  |
| <u>J</u> food chain  | C.) to do well or be successful   |
| <u>I</u> biome       | D.) description of behaviors that are inherited                             |
| <u>C</u> thrive      | E.) children  |
| <u>B</u> perish      | G.) a group of organisms that produce offspring like themselves             |
| <u>H</u> community   | H.) populations of different species that live in the same area             |
| <u>E</u> offspring   | I.) one of the six major land areas defined by climate (Ex. Desert, Tundra) |
| <u>G</u> species     | J.) the path of energy from the sun to a plant to animals                   |
| <u>A</u> shelter     | K.) a group of overlapping food chains                                      |



## Fifth Grade Science Warm-up – Number 57 Addendum

Use the information below and your knowledge of science to help you answer questions 1 and 2 below. Four soil samples were tested to see how much water would filter (pass) through them.



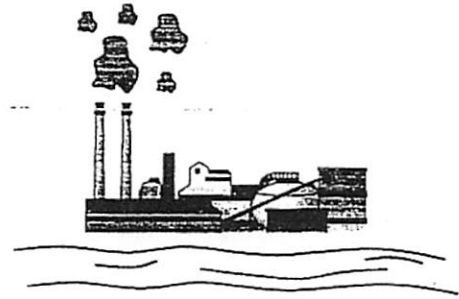
- 1.) Which soil sample allows the most water to pass through it?
- A.) Loam                       C.) Sand  
B.) Clay                        D.) Clay and Rock
- 2.) Few plants could grow if planted in clay soil because \_\_\_\_
- A.) The Sun did not shine on the plants.  
 B.) Too much water would get to the roots of the plants.  
C.) The water would not get to the roots of the plants.
- 3.) In order to hear any sound that is made, there must be \_\_\_\_ that produce waves in the air that reach your \_\_\_\_.
- A.) rotations, eyes         C.) vibrations, ears  
B.) rotations, ears        D.) vibrations, eyes
- 4.) Which of the following is true?
- A.) Soil is not a natural resource.  
B.) Soil is an inexhaustible resource.  
 C.) Soil is a renewable resource.
- 5.) In order to build a large building, a deep hole must be dug. The \_\_\_\_ is located **farthest** from the surface.
- A.) older rock                C.) all rock is the same age  
B.) younger rock            D.) more beautiful rock
- 6.) What is a **Glacier**?
- A.) a slab of concrete                      C.) wind  
 B.) a thick sheet of snow and ice        D.) ice cream
- 7.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.
- A.) sedimentary, metamorphic, igneous  
B.) igneous, metamorphic, sedimentary  
 C.) igneous, sedimentary, metamorphic  
D.) erosion, gravity, weathering
- 8.) California has the famous San Andreas Fault. What is formed when one continental **plate** moves in the opposite direction to the other?
- A.) an earthquake  
B.) electricity  
C.) trench in the ocean  
D.) a mountain
- 
- The diagram shows a fault line with two plates moving in opposite directions. One plate is moving to the right and the other to the left. The word "Fault" is written above the line with an arrow pointing to it.
- 9.) A dust cloud appears over San Angelo, Texas. This is evidence of \_\_\_\_.
- A.) deposits of rocks        C.) weathering by wind  
 B.) soil erosion by wind    D.) weathering by plants
- 10.) What type of material is deposited at river deltas due to the river carrying it downstream?
- A.) glacial deposits                                      C.) big rocks  
 B.) sedimentary (sand) deposits                  D.) dead fish

- SOLUTION -

## Fifth Grade Science Warm-up – Number 58

USE the picture on the right to answer questions 1 and 2 below.

The picture below shows a factory near a river.



- 1.) The pollution caused by the smoke most likely will contaminate (ruin) the \_\_\_\_\_.
- A.) water supply  
 B.) factory workers  
 C.) air in the atmosphere  
 D.) soil
- 2.) If the river became polluted, which may happen?
- A.) fish would die  
 B.) fish would drink more water  
 C.) fish would grow  
 D.) fish would swim faster

3.) How many variables are changed in an experiment?  1

4.) Answer the questions that are attached.

5.) A magnet would attract all of the following EXCEPT

- A.) paperclips  
 B.) iron filings  
 C.) plastic  
 D.) steel plate

6.) Which of these items is an insulator?

- A.) Plastic  
 B.) Water  
 C.) Iron  
 D.) All of the above

7.) What describes ALL of the following in the correct order:

- 1.) A rock where a fossil is formed near a river delta.
- 2.) A rock formed near a volcano
- 3.) An insulator (does NOT conduct electricity well)
- 4.) A fossil fuel and a nonrenewable resource.
- 5.) An inexhaustible resource.

- A.) sedimentary, metamorphic, metal, natural gas, sunlight  
 B.) igneous, sedimentary, glass, oil, wind  
 C.) sedimentary, metamorphic, rubber, oil, sunlight  
 D.) sedimentary, igneous, rubber, coal, wind

8.) A snake eats mice. Which direction does the arrow point in a food chain?

- A.) toward the mouse  
 B.) toward the snake  
 C.) toward the Sun  
 D.) All of the above

9.) An animal will defend which of the following?

- A.) offspring/mate  
 B.) food/water  
 C.) territory (space)  
 D.) All of the above

10.) What gas is taken into the leaf during photosynthesis?

- A.) carbon dioxide  
 B.) sunlight  
 C.) oxygen  
 D.) nitrogen

11.) Which of the following is a physical change?

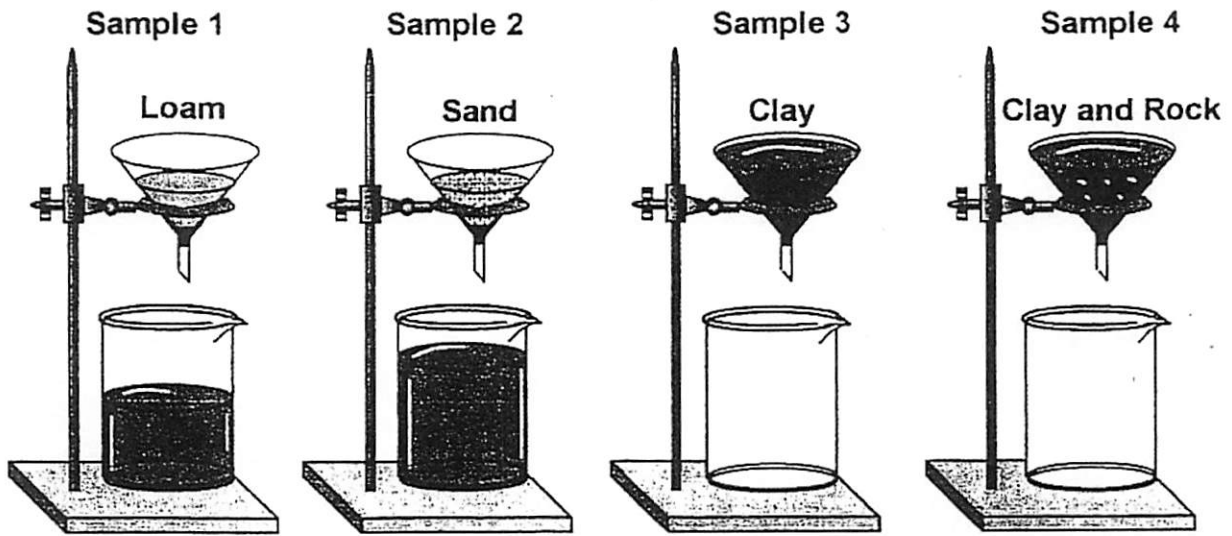
- A.) growing taller  
 B.) burning a matchstick  
 C.) a charred log  
 D.) All of the above

12.) Match the correct word on the left with the correct definition given on the right.

- |                      |   |
|----------------------|---|
| <u>D</u> instinctive | A.) a habitat or a place where an animal is safe                            |
| <u>K</u> food web    | B.) to die  |
| <u>J</u> food chain  | C.) to do well or be successful   |
| <u>I</u> biome       | D.) description of behaviors that are inherited                             |
| <u>C</u> thrive      | E.) children  |
| <u>B</u> perish      | G.) a group of organisms that produce offspring like themselves             |
| <u>H</u> community   | H.) populations of different species that live in the same area             |
| <u>E</u> offspring   | I.) one of the six major land areas defined by climate (Ex. Desert, Tundra) |
| <u>G</u> species     | J.) the path of energy from the sun to a plant to animals                   |
| <u>A</u> shelter     | K.) a group of overlapping food chains                                      |
| <u>L</u> burrow      | L.) to dig or IT can refer to a ground animal like a gopher's home/habitat  |

# Fifth Grade Science Warm-up - Number 58 Addendum

Use the information below and your knowledge of science to help you answer questions 1 and 2 below. Four soil samples were tested to see how much water would filter (pass) through them.



1.) Which soil sample allows the most water to pass through it?

- A.) Loam
- B.) Sand
- C.) Clay
- D.) Clay and Rock

2.) Which two samples would NOT allow water to get to the roots of the plant?

- A.) Sample 1 and 2
- B.) Sample 2 and 3
- C.) Sample 3 and 4
- D.) Sample 1 and 4

3.) In order to hear any sound that is made, there must be \_\_\_\_\_ that produce waves in the air that reach your \_\_\_\_\_.

- A.) rotations, eyes
- B.) rotations, ears
- C.) vibrations, ears
- D.) vibrations, eyes

4.) Which of the following is true?

- A.) Soil is not a natural resource.
- B.) Soil is an inexhaustible resource.
- C.) Soil is a renewable resource.

5.) In order to build a large building, a deep hole must be dug. The \_\_\_\_\_ is located **farthest** from the surface.

- A.) older rock
- B.) younger rock
- C.) all rock is the same age
- D.) more beautiful rock

6.) A cup and a bathtub of water freezes at what temperature?

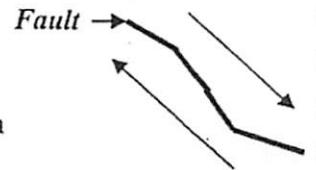
- A.) 0 degrees Celsius
- B.) 32 degrees Celsius
- C.) 100 degrees Celsius
- D.) They don't freeze at the same temperature

7.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.

- A.) sedimentary, metamorphic, igneous
- B.) igneous, metamorphic, sedimentary
- C.) igneous, sedimentary, metamorphic
- D.) erosion, gravity, weathering

8.) California has the famous San Andreas Fault. What is formed when one continental **plate** moves in the opposite direction to the other?

- A.) an earthquake
- B.) electricity
- C.) trench in the ocean
- D.) a mountain



9.) A dust cloud appears over San Angelo, Texas. This is evidence of \_\_\_\_\_.

- A.) deposits of rocks
- B.) soil erosion by wind
- C.) weathering by wind
- D.) weathering by plants

10.) What type of material is deposited at river deltas due to the river carrying it downstream?

- A.) glacial deposits
- B.) sedimentary (sand) deposits
- C.) big rock
- D.) dead fish

## Fifth Grade Science Warm-up – Number 59

1.) Which diagram best show the flow of energy through an ecosystem?

- A.) Sun → consumers → producers → herbivores
- B.) producers → omnivores → consumers → Sun
- C.) Sun → producers → herbivores → carnivores
- D.) consumers → carnivores → herbivores → producers

2.) To produce food, the green parts of a corn plant absorb (take in) \_\_\_\_\_.

- A.) radiant energy (sunlight) from the sun
- B.) water/minerals
- C.) carbon dioxide
- D.) oxygen

3.) Which of the following best completes the food chain?

berry plants → mouse → ? → hawk

- A.) grass
- B.) salmon
- C.) snake
- D.) spider

4.) In order for living things to survive, an ecosystem must provide all of the following EXCEPT?

- A.) oxygen
- B.) food
- C.) water
- D.) clothing

5.) How many variables are changed in an experiment? 1

6.) Answer the questions that are attached.

7.) What describes ALL of the following in the correct order?

- 1.) A rock where a fossil is formed near a river delta.
- 2.) A rock formed due to heat and pressure.
- 3.) An insulator (does NOT conduct electricity well)
- 4.) A fossil fuel and a nonrenewable resource.
- 5.) A renewable resource.

- A.) sedimentary, metamorphic, metal, natural gas, sunlight
- B.) igneous, sedimentary, glass, oil, wind
- C.) sedimentary, metamorphic, rubber, oil, soil
- D.) sedimentary, igneous, rubber, coal, wind

8.) A consumer eats a producer. Which direction does the arrow point in a food chain?

- A.) toward the consumer
- B.) toward the producer
- C.) toward the Sun
- D.) All of the above

9.) An animal will defend which of the following?

- A.) offspring/mate
- B.) food/water
- C.) territory (space)
- D.) All of the above

10.) What gas is released from a leaf during photosynthesis?

- A.) carbon dioxide
- B.) sunlight
- C.) oxygen
- D.) nitrogen

11.) Which of the following is a chemical change?

- A.) a burned log
- B.) pouring milk in a cup
- C.) cutting cheese
- D.) All of the above

12.) Match the correct word on the left with the correct definition given on the right.

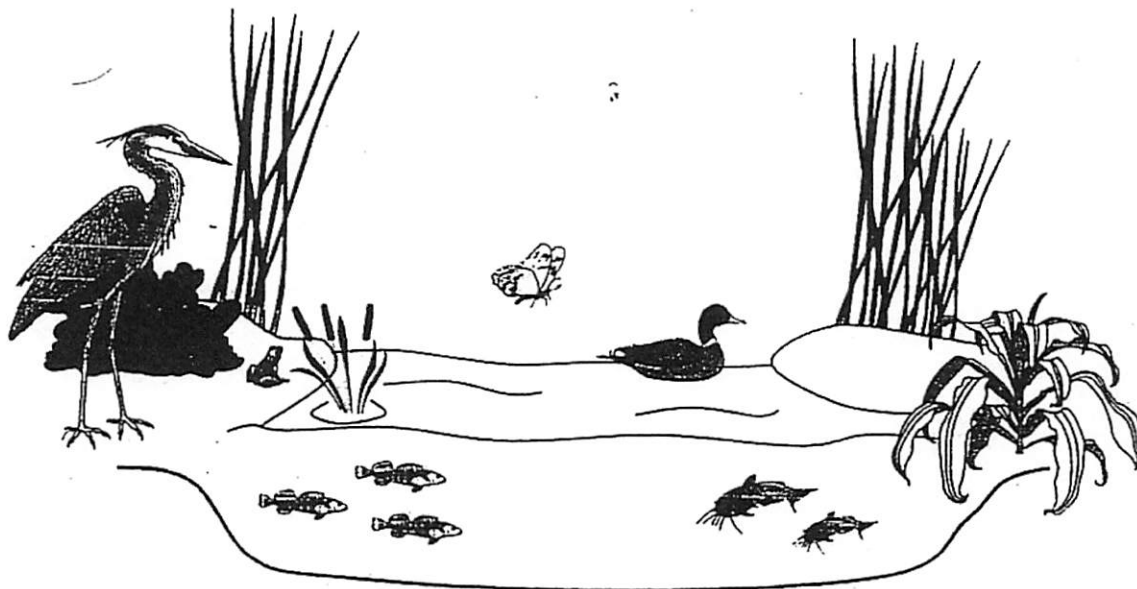
- D instinctive
- K food web
- J food chain
- I biome
- C thrive
- B perish
- H community
- E offspring
- G species
- A shelter
- L niche
- M decomposer

- A.) a habitat or a place where an animal is safe
- B.) to die
- C.) to do well or be successful
- D.) description of behaviors that are inherited
- E.) children
- G.) a group of organisms that produce offspring like themselves
- H.) populations of different species that live in the same area
- I.) one of the six major land areas defined by climate (Ex. Desert, Tundra)
- J.) the path of energy from the sun to a plant to animals
- K.) a group of overlapping food chains
- L.) the role of an organism in an ecosystem (Ex. a hawk (carnivore) eats a snake)
- M.) an organism the feeds off decaying or dead animals

# Fifth Grade Science Warm-up – Number 59 Addendum

Use the information below and your knowledge of science to help you answer questions 1 - 4 below.

The diagram below represents a wetland ecosystem.



1.) If all the water dried up during a drought, which of the following would most likely perish?

- A.) duck
- B.) heron
- C.) fish
- D.) butterfly

2.) More herons in the ecosystem would most likely effect the number of \_\_\_\_\_.

- A.) ducks
- B.) plants
- C.) butterflies
- D.) fish

3.) If more insects came to this ecosystem, the population of frogs would most likely \_\_\_\_\_.

- A.) thrive
- B.) become ill
- C.) perish
- D.) disappear

4.) If all the fish in the ecosystem were to perish, which animal would most likely leave the ecosystem?

- A.) duck
- B.) heron
- C.) frog
- D.) butterfly

5.) In order to build a large building, a deep hole must be dug. The \_\_\_\_\_ is located **closest** to the surface.

- A.) older rock
- B.) younger rock
- C.) all rock is the same age
- D.) more beautiful rock

6.) A pencil and a 2 ton rock are dropped from the same height. Which object hits the ground first?

- A.) the pencil
- B.) both hit at the same time
- C.) the rock
- D.) ask the teacher

7.) A farmer spreads fertilizer over his fields. The reason for this action is probably \_\_\_\_\_.

- A.) to add fixed (solid) nitrogen back to the soil
- B.) to add nitrogen gas back to the soil
- C.) to add minerals and proteins back to the soil
- D.) to have something to do with his time

8.) What is formed when two continental **plates** move directly toward one another?

- A.) an earthquake
- B.) electricity
- C.) trench in the ocean
- D.) a mountain



9.) Water freezes at 0 degrees Celcius **inside** a rock. The water expands. What is going to happen \_\_\_\_\_?

- A.) weathering will occur
- B.) the rock will break
- C.) sediments will form
- D.) All of the above

10.) What type of material is **deposited** at river deltas due to the river carrying it downstream?

- A.) glacial deposits
- B.) sedimentary (sand) deposits
- C.) big rocks
- D.) dead fish

# Fifth Grade Science Warm-up – Number 60 – Weekly Test

USE the picture on the right to answer questions 1 and 2 below.

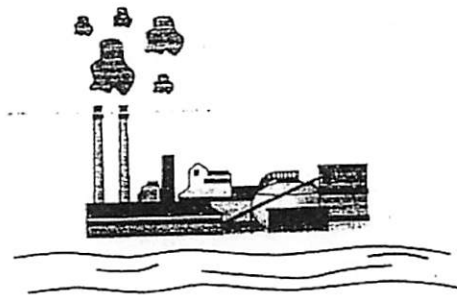
1.) The pollution caused by the smoke most likely will contaminate (ruin) the \_\_\_\_\_.

- A.) water supply
- B.) factory workers
- C.) air in the atmosphere
- D.) soil

2.) If the river became polluted, which **may** happen?

- A.) fish would die
- B.) fish would drink more water
- C.) fish would grow
- D.) fish would swim faster

The picture below shows a factory near a river.



3.) How many **variables** are changed in an experiment?  1

4.) Answer the questions that are attached.

5.) A magnet would attract all of the following EXCEPT...

- A.) paperclips
- B.) iron filings
- C.) plastic
- D.) steel plate

6.) Which of these items is an **insulator**?

- A.) Plastic
- B.) Water
- C.) Metal
- D.) None of the above

7.) What describes **ALL** of the following in the correct order?

- 1.) A rock where a fossil is formed near a river delta.
- 2.) A rock formed near a volcano
- 3.) An insulator (does NOT conduct electricity well)
- 4.) A fossil fuel and a nonrenewable resource.
- 5.) An inexhaustible resource.

- A.) sedimentary, metamorphic, metal, natural gas, sunlight
- B.) igneous, sedimentary, glass, oil, wind
- C.) sedimentary, metamorphic, rubber, oil, sunlight
- D.) sedimentary, igneous, rubber, coal, wind

8.) A snake eats mice. Which direction does the **arrow point** in a food chain?

- A.) toward the mouse
- B.) toward the snake
- C.) toward the Sun
- D.) All of the above

9.) An animal will defend which of the following?

- A.) offspring/mate
- B.) food/water
- C.) territory (space)
- D.) All of the above

10.) What **gas** is taken into the leaf during photosynthesis?

- A.) carbon dioxide
- B.) sunlight
- C.) oxygen
- D.) nitrogen

11.) Which of the following is a **physical change**?

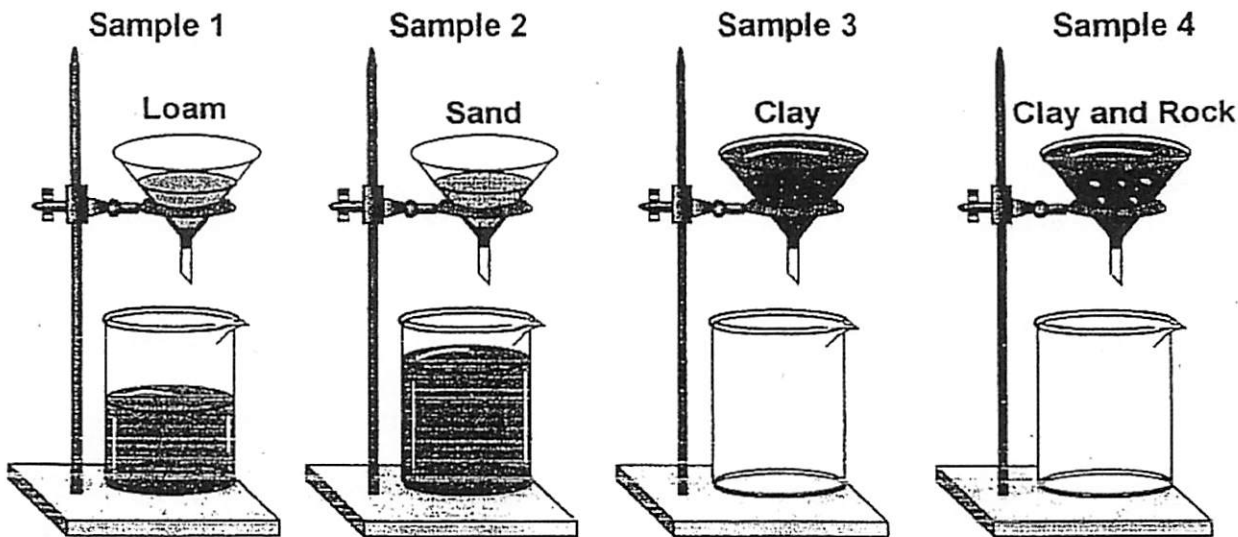
- A.) Burning a matchstick
- B.) Breaking a marble
- C.) Charring a log
- D.) All of the above

12.) Match the correct word on the left with the correct definition given on the right.

- |                      |   |
|----------------------|---|
| <u>D</u> instinctive | A.) a habitat or a place where an animal is safe                            |
| <u>K</u> food web    | B.) to die  |
| <u>J</u> food chain  | C.) to do well or be successful   |
| <u>I</u> biome       | D.) description of behaviors that are inherited                             |
| <u>C</u> thrive      | E.) children  |
| <u>B</u> perish      | G.) a group of organisms that produce offspring like themselves             |
| <u>H</u> community   | H.) populations of different species that live in the same area             |
| <u>E</u> offspring   | I.) one of the six major land areas defined by climate (Ex. Desert, Tundra) |
| <u>G</u> species     | J.) the path of energy from the sun to a plant to animals                   |
| <u>A</u> shelter     | K.) a group of overlapping food chains                                      |
| <u>L</u> burrow      | L.) to dig or IT can refer to a ground animal like a gopher's home/habitat  |

# Fifth Grade Science Warm-up - Number 60 Addendum

Use the information below and your knowledge of science to help you answer questions 1 and 2 below. Four soil samples were tested to see how much water would filter (pass) through them.



1.) Which soil sample allows the most water to pass through it?

- A.) Loam
- B.) Clay
- C.) Sand
- D.) Clay and Rock

2.) Few plants could grow if planted in clay soil because \_\_\_\_

- A.) The Sun did not shine on the plants.
- B.) Too much water would get to the roots of the plants.
- C.) The water would not get to the roots of the plants.

3.) In order to hear any sound that is made, there must be \_\_\_\_ that produce waves in the air that reach your \_\_\_\_.

- A.) rotations, eyes
- B.) rotations, ears
- C.) vibrations, ears
- D.) vibrations, eyes

4.) Which of the following is true?

- A.) Soil is not a natural resource.
- B.) Soil is an inexhaustible resource.
- C.) Soil is a renewable resource.

5.) In order to build a large building, a deep hole must be dug. The \_\_\_\_ is located **farthest** from the surface.

- A.) older rock
- B.) younger rock
- C.) all rock is the same age
- D.) more beautiful rock

6.) What is a **Glacier**?

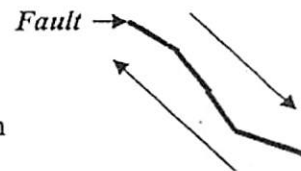
- A.) a slab of concrete
- B.) a thick sheet of snow and ice
- C.) wind
- D.) ice cream

7.) What type of rock is found near a volcano? What type of rock is found near a river delta? What type of rock is formed due to high pressure and heat? Choose below.

- A.) sedimentary, metamorphic, igneous
- B.) igneous, metamorphic, sedimentary
- C.) igneous, sedimentary, metamorphic
- D.) erosion, gravity, weathering

8.) California has the famous San Andreas Fault. What is formed when one continental **plate** moves in the opposite direction to the other?

- A.) an earthquake
- B.) electricity
- C.) trench in the ocean
- D.) a mountain



9.) A dust cloud appears over San Angelo, Texas. This is evidence of \_\_\_\_.

- A.) deposits of rocks
- B.) soil erosion by wind
- C.) weathering by wind
- D.) weathering by plants

10.) What type of material is deposited at river deltas due to the river carrying it downstream.

- A.) glacial deposits
- B.) sedimentary (sand) deposits
- C.) big rock
- D.) dead fish

# Fifth Grade Science Warm-up – Number 61

1.) Which diagram best show the flow of energy through an ecosystem?

- A.) Sun → consumers → producers → herbivores
- B.) producers → omnivores → consumers → Sun
- C.) Sun → producers → herbivores → carnivores
- D.) consumers → carnivores → herbivores → producers

2.) To produce food, the green parts of a corn plant absorb (take in) \_\_\_\_\_.

- A.) radiant energy (sunlight) from the sun
- B.) water/minerals
- C.) carbon dioxide
- D.) oxygen

3.) Which of the following best completes the food chain?

berry plants → mouse → ? → hawk

- A.) grass
- B.) salmon
- C.) snake
- D.) spider

4.) In order for living things to survive, an ecosystem must provide all of the following EXCEPT?

- A.) oxygen
- B.) food
- C.) water
- D.) clothing

5.) How many variables are changed in an experiment? \_\_\_\_

6.) Answer the questions that are attached.

7.) What describes ALL of the following in the correct order?

- 1.) A rock where a fossil is formed near a river delta.
- 2.) A rock formed due to heat and pressure.
- 3.) An insulator (does NOT conduct electricity well)
- 4.) A fossil fuel and a nonrenewable resource.
- 5.) A renewable resource.

- A.) sedimentary, metamorphic, metal, natural gas, sunlight
- B.) igneous, sedimentary, glass, oil, wind
- C.) sedimentary, metamorphic, rubber, oil, soil
- D.) sedimentary, igneous, rubber, coal, wind

8.) A consumer eats a producer. Which direction does the arrow point in a food chain?

- A.) toward the consumer
- B.) toward the producer
- C.) toward the Sun
- D.) All of the above

9.) An animal will defend which of the following?

- A.) offspring/mate
- B.) food/water
- C.) territory (space)
- D.) All of the above

10.) What gas is released from a leaf during photosynthesis?

- A.) carbon dioxide
- B.) sunlight
- C.) oxygen
- D.) nitrogen

11.) Which of the following is a chemical change?

- A.) a burned log
- B.) pouring milk in a cup
- C.) cutting cheese
- D.) All of the above

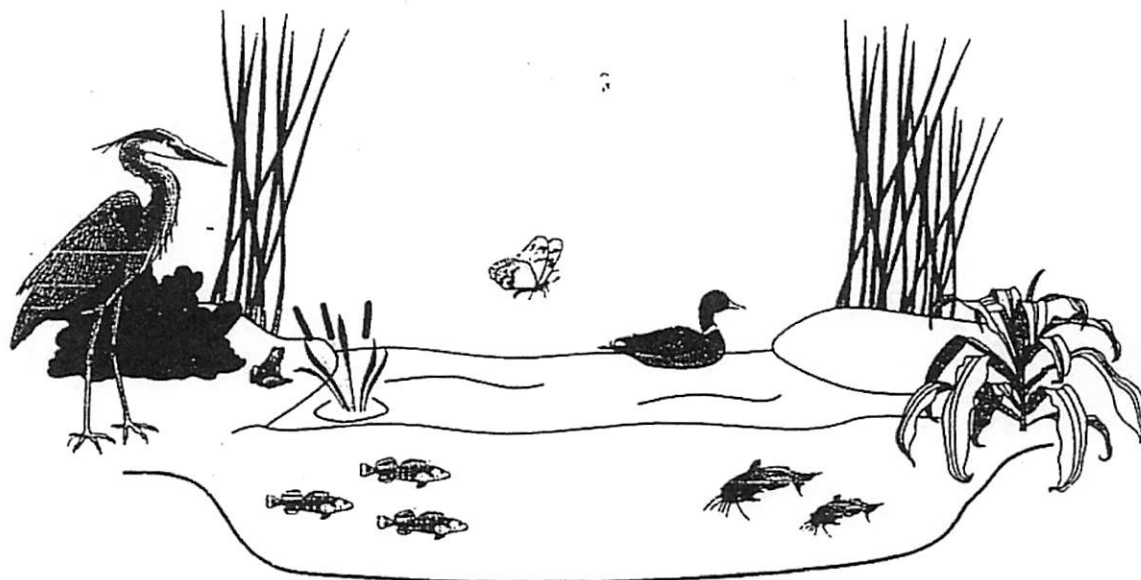
12.) Match the correct word on the left with the correct definition given on the right.

- |                      |   |
|----------------------|---|
| <u>D</u> instinctive | A.) a habitat or a place where an animal is safe                                  |
| <u>K</u> food web    | B.) to die  |
| <u>J</u> food chain  | C.) to do well or be successful   |
| <u>I</u> biome       | D.) description of behaviors that are inherited                                   |
| <u>C</u> thrive      | E.) children  |
| <u>B</u> perish      | G.) a group of organisms that produce offspring like themselves                   |
| <u>H</u> community   | H.) populations of different species that live in the same area                   |
| <u>E</u> offspring   | I.) one of the six major land areas defined by climate (Ex. Desert, Tundra)       |
| <u>G</u> species     | J.) the path of energy from the sun to a plant to animals                         |
| <u>A</u> shelter     | K.) a group of overlapping food chains  |
| <u>L</u> niche       | L.) the role of an organism in an ecosystem (Ex. a hawk (carnivore) eats a snake) |
| <u>M</u> decomposer  | M.) an organism the feeds off decaying or dead animals                            |



## Fifth Grade Science Warm-up – Number 61 Addendum

Use the information below and your knowledge of science to help you answer questions 1 - 4 below. The diagram below represents a wetland ecosystem.



1.) If all the water dried up during a drought, which of the following would most likely perish?

- A.) duck  
B.) heron  
C.) fish  
D.) butterfly

2.) More herons in the ecosystem would most likely effect the number of \_\_\_\_\_.

- A.) ducks  
B.) plants  
C.) butterflies  
D.) fish

3.) If more insects came to this ecosystem, the population of frogs would most likely \_\_\_\_\_.

- A.) thrive  
B.) become ill  
C.) perish  
D.) disappear

4.) If all the fish in the ecosystem were to perish, which animal would most likely leave the ecosystem?

- A.) duck  
B.) heron  
C.) frog  
D.) butterfly

5.) In order to build a large building, a deep hole must be dug. The \_\_\_\_\_ is located **closest** to the surface.

- A.) older rock  
B.) younger rock  
C.) all rock is the same age  
D.) more beautiful rock

6.) A pencil and a 2 ton rock are dropped from the same height. Which object hits the ground first?

- A.) the pencil  
B.) both hit at the same time  
C.) the rock  
D.) ask the teacher

7.) A farmer spreads fertilizer over his fields. The reason for this action is probably \_\_\_\_\_.

- A.) to add fixed (solid) nitrogen back to the soil  
B.) to add nitrogen gas back to the soil  
C.) to add minerals and proteins back to the soil  
D.) to have something to do with his time

8.) What is formed when two continental **plates** move directly toward one another?

- A.) an earthquake  
B.) electricity  
C.) trench in the ocean  
D.) a mountain



9.) Water freezes at 0 degrees Celcius **inside** a rock. The water expands. What is going to happen \_\_\_\_\_?

- A.) weathering will occur  
B.) the rock will break  
C.) sediments will form  
D.) All of the above

10.) What type of material is **deposited** at river deltas due to the river carrying it downstream?

- A.) glacial deposits  
B.) sedimentary (sand) deposits  
C.) big rocks  
D.) dead fish