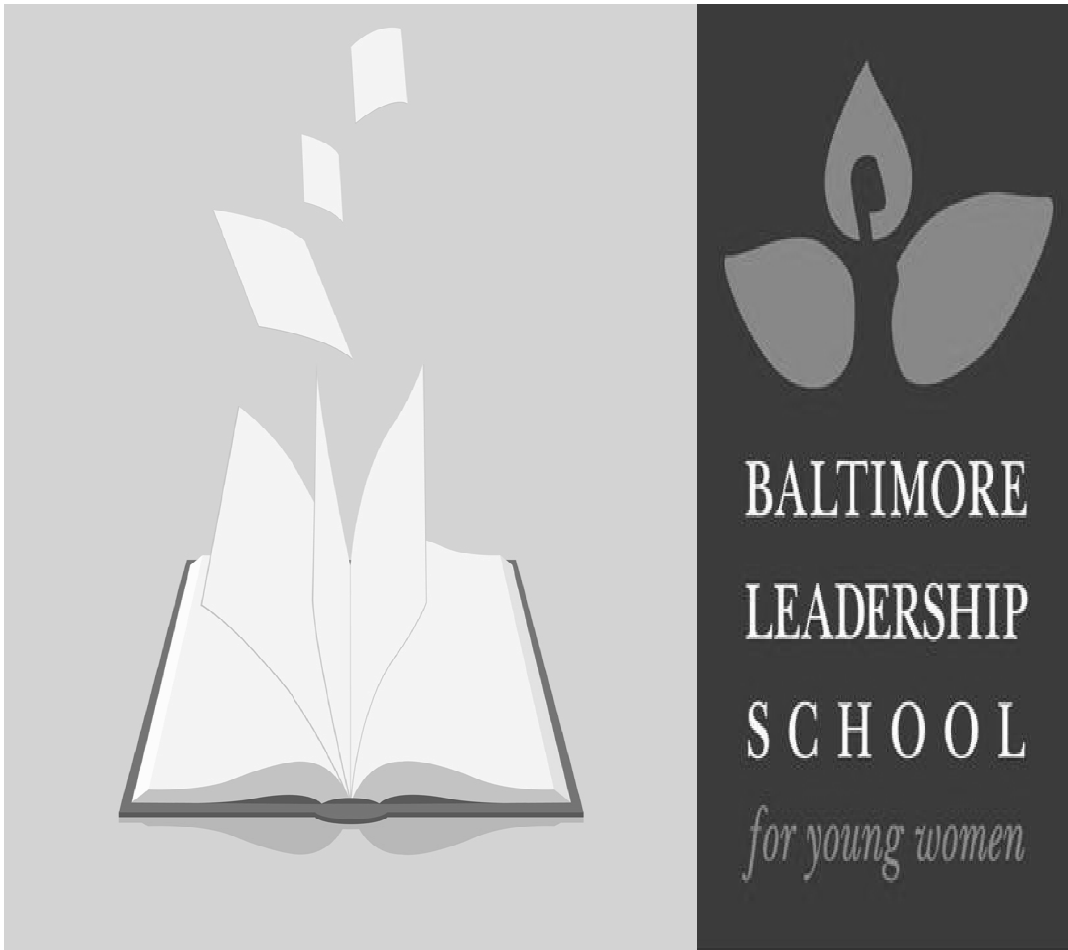


# 6th Grade Comprehensive Exam

## STUDY GUIDE

January 9, 2012



# SCIENCE

***TEST DATE: Tuesday, January 17, 2012***

NAME: \_\_\_\_\_

COLLEGE: \_\_\_\_\_

## Unit 1

Classify which branch of science—physical science, Earth science, or life science—includes each of the following examples. Then, write one additional example studied by that science.

Example	Branch of Science	Additional Example
Clouds		
Soil		
Fish		
Light		
Meteors		
Chemical Reactions		
Body Systems		
Plants		

Define *observation* and give one example of an observation you made today.

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Use your notes to define the following terms.

*hypothesis*

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*infer*

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*scientific method*

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*model*

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*Summarize how models are helpful*

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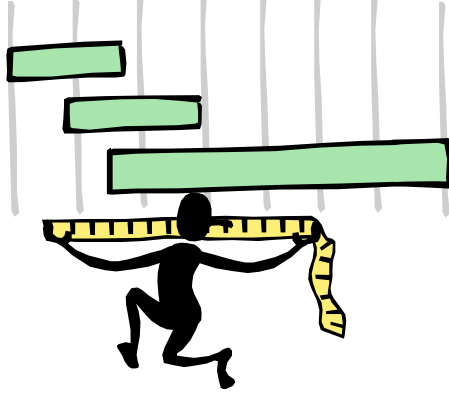
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*Organize information in the chart to describe the three types of models and their uses.*

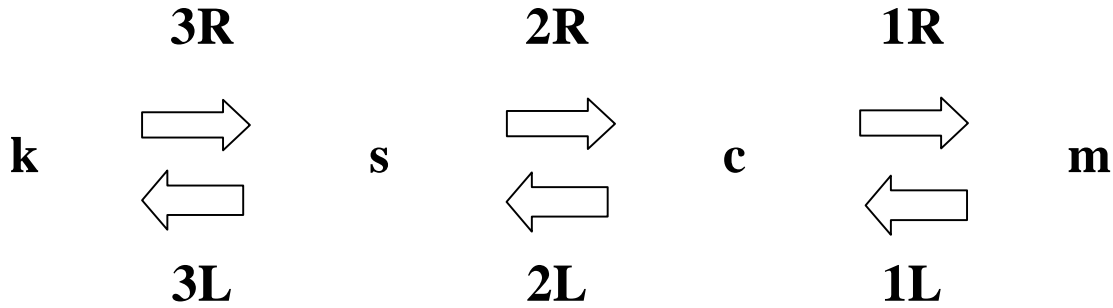
<i>Models</i>		
<i>Type</i>	<i>Description</i>	<i>Use</i>
Physical		
	Built using computer software	
		Help people understand abstract concepts that are beyond common experience.



# Unit 2



## Metric Measurement Conversion



### Directions:

1. Circle which direction you are moving the decimal place.
2. Write the total number of times you will move the decimal.
3. Write the original number and move the decimal.

1. 9.85 kilometers = \_\_\_\_\_ meters R or L How many total? \_\_\_\_\_
2. 109,700 centimeters = \_\_\_\_\_ kilometers R or L How many total? \_\_\_\_\_
3. 10.77 meters = \_\_\_\_\_ millimeters R or L How many total? \_\_\_\_\_
4. 857.6 liters = \_\_\_\_\_ centiliters R or L How many total? \_\_\_\_\_
5. .54 kiloliters = \_\_\_\_\_ milliliters R or L How many total? \_\_\_\_\_
6. 345 kilograms = \_\_\_\_\_ grams R or L How many total? \_\_\_\_\_
7. 58.4 grams = \_\_\_\_\_ milligrams R or L How many total? \_\_\_\_\_
8. 120,560 milligrams = \_\_\_\_\_ kilograms R or L How many total? \_\_\_\_\_
9. 6897 centiliters = \_\_\_\_\_ liters R or L How many total? \_\_\_\_\_
10. 120 centigrams = \_\_\_\_\_ grams R or L How many total? \_\_\_\_\_

Vocabulary Exercises:

- Define each of the words.
- Draw a picture illustrating 5 of the words

1. Physical weathering

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2. Chemical weathering

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3. Deposition

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4. Erosion

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5. Destructive processes

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6. Constructive processes

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7. Compaction

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8. Cementation

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9. Sedimentary

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10. Metamorphic

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11. Igneous

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12. Intrusive Igneous rock

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13. Extrusive Igneous rock

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14. Rock Cycle

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**Please draw below:**

Word:	Word:	Word:	Word:	Word:
Drawing:	Drawing:	Drawing:	Drawing:	Drawing:

Explain how you could tell an igneous rock from a metamorphic rock? (Use distinguishing features.)

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Explain how each of the three processes that form sedimentary rock work. Please use the sandwich model we created in class in your answer.

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Match each statement with the correct item below. You will not use all the words.

- |                      |                       |                      |                     |
|----------------------|-----------------------|----------------------|---------------------|
| <b>a.</b> compaction | <b>b.</b> cementation | <b>c.</b> deposition | <b>d.</b> sediment  |
| <b>e.</b> weathering | <b>f.</b> extrusive   | <b>g.</b> erosion    | <b>h.</b> intrusive |

The process in which pressure from the upper layers of sediment pushes down on the lower layers, causing the sediments to stick together and form solid rock. \_\_\_\_\_

The movement of weathered material \_\_\_\_\_

The process in which rock is exposed to air, water, or ice and breaks into pieces. \_\_\_\_\_

The process in which minerals hold sediment together, like glue, making a sedimentary rock. \_\_\_\_\_

Small pieces of broken rock, mud and other materials. \_\_\_\_\_