

# Science Warm-Up

Feb. 24-27, 2015

Week 24

Name \_\_\_\_\_

Period \_\_\_\_\_

## Monday:

1. How many minerals on the Mohs' Scale would scratch quartz? \_\_\_\_\_
2. Name all common items that are harder than Calcite. \_\_\_\_\_  
\_\_\_\_\_
3. Name the softest mineral on the Mohs' Scale. \_\_\_\_\_
4. The hardest mineral is \_\_\_\_\_ because \_\_\_\_\_  
\_\_\_\_\_.

## MOHS' SCALE OF HARDNESS

Mineral	Hardness	Common Tests
Talc	1	Scratched by a fingernail
Gypsum	2	
Calcite	3	Scratched by a copper coin
Fluorite	4	Scratched by a knife blade
Apatite	5	
Feldspar	6	Scratches a knife blade
Quartz	7	
Topaz	8	
Corundum	9	
Diamond	10	Scratches all common materials

-----

## Tuesday:

Use your **Mineral Notes** Property Chart (bottom of pg. 1)

1. The mineral Graphite is very soft—about 1.5 on the hardness scale. Name the field scale common item that you have with you that would scratch graphite. \_\_\_\_\_
2. When you write with a pencil, you are using the mineral Graphite. Describe the color of its streak on this white paper.  
\_\_\_\_\_

3. Each mineral is unique due to its individual properties.

Name the property that describes how a mineral's surface reflects light.  
\_\_\_\_\_

Name the property that gives the quantity of mass per unit of volume.  
\_\_\_\_\_

**Wednesday: Density = Mass ÷ Volume**

1. An unknown mineral has a mass of 18 grams and a volume of 2 mL. Calculate the density of the mineral. Show your work.

D=\_\_\_\_\_ Don't forget the unit .

2. The mineral is \_\_\_\_\_.

Mineral	Density (g/ml)
Silver	10.5
Gold	19
Copper	9
Sulfur	2
Aluminum	2.7

**Thursday: Use "Where do all these rocks come from?" to complete:**

1. The \_\_\_\_\_ arrows represent the process of weathering and erosion to form \_\_\_\_\_ rock.
2. The red arrows represent the processes \_\_\_\_\_ and \_\_\_\_\_ in the formation of metamorphic rock.
3. Yellow arrows represent the process of \_\_\_\_\_ and \_\_\_\_\_ for the formation of igneous rock.
4. What powers the sedimentary part of the rock cycle? \_\_\_\_\_

**Friday: Use your "Types of Rocks Notes" to complete:**

Circle the correct answer:

1. Rocks are only classified by their color. True / False
2. Rocks can be eroded or moved by water. True / False
3. Only igneous rock forms from magma. True / False
4. Heat and pressure form sedimentary rock. True / False
5. Weathering breaks rock down into sediment. True / False
6. Types of rock are classified by formation. True / False