**SECTIONS: 4A,B,C,D,E** 

DATE	Homework	PARENT SIGNATURE
Monday	<ul> <li>→ Complete "Matching Moon Phases"</li> <li>→ Begin Moon Phases Calendar</li> </ul>	
Tuesday	<ul> <li>→ Earth's Movement and Moon Phases Test</li> <li>→ No Homework</li> <li>→ Continue Moon Phases Calendar</li> </ul>	
Wednesday	<ul> <li>→ Complete "Rock Worksheet"</li> <li>→ Continue Moon Phases Calendar</li> </ul>	
Thursday	<ul> <li>→ Complete "Three Types of Rocks Question Sheet"</li> <li>→ Continue Moon Phases Calendar</li> </ul>	
Friday	<ul> <li>→ Complete "Labeling the 3 Types of Rocks"</li> <li>→ Continue Moon Phases Calendar</li> </ul>	

### Reminders

- Parents: Don't forget to initial your child's HW Cover Sheet every night.
  - HW due Monday, February 10th
- Earth's Movement and Moon Phases Test changed to Tuesday, February
- Moon Phases Calendar project begins tonight, Monday Feb. 3rd

## **SCIENCE VOCABULARY**

Earth's rotation: from east to west on it's axis, creates the change from night to day

Earth's revolution: causes visual variations of parts of the sky (orbit around the sun)

Satellite: any object that orbits or revolves around another object.

Magma: rock that has been melted deep within the Earth where the temperature is extremely high (molten rock)

Lava: magma that reaches the Earth's surface

Igneous rock: formed when molten rock is cooled

**Metamorphic rock**: from when igneous and sedimentary rocks are exposed to extreme heat and pressure

**Sedimentary rock**: made up of smaller pieces of rocks and fossilized organisms such as: sand, shells, and the remains of plants and animals

# Matching Moon Phases

Read the description on the left and match it with the Moon phase on the right. Please put the letter of the Moon phase on the far left blank line and draw a line to the matching word.

Example:			
1b The	e opposite of dark is a. gold	b. light	
1. (start of cy		ctly between the Sun and Earth	a. Waning Gibbous Moon
(31411010)	y Ciej.		b. Full Moon
2. (cycles star		ectly between the Sun and Earth	c. New Moon
	A bit of the Sunlit side being on the right.	of the Moon shows, with the	d. Waxing Crescent Moon
	Two weeks have passed face of the Moon shining	since the new Moon. We see	e. First Quarter Moon
5.	The Moon is three-quar	ters of its way around Earth.	f. Waxing Crescent Moon
6.	The Moon is a quarter o	f its way around Earth.	g. Last/3 <sup>rd</sup> Quarter Moon
7.	A bit of the Sunlit side	of the Moon shows with the	
light side b	eing on the left.		h. Waxing Gibbous Moor
8.	The Moon is between fu	ıll Moon and last quarter	i. Waning Gibbous Moon
9. Moon and a	•	in light between a first quarter	j. New Moon
	. The Moon is decreasing Juarter Moon.	g in light between a full Moon	

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# **Rock Worksheet**

**Directions:** Read the information below carefully and answer the questions that follow on the back side of this paper. Answer the questions as completely as possible.

Rocks and Minerals

The ground we walk on, build on, and grow gardens on is made of rock. All the rocks in the world are made up of chemicals called **minerals**. Minerals are solid, inorganic (not living) substances found in and on the earth. Most are chemical compounds, which means that they are made of two or more elements. For example, the mineral sapphire is made up of aluminum and oxygen. A few minerals such as gold, silver and copper are made of a single element. Minerals are considered to be the building blocks of rocks. Rocks can be a combination of as many as six types of minerals. Through a microscope, a rock shows that it is made of crystals of different minerals, all growing together like a puzzle.

Three types of rocks make up the Earth's crust. Rocks are formed in three different ways to produce igneous, metamorphic, and sedimentary rocks. Igneous rocks form when molten magma cools and solidifies. Metamorphic rocks form when a rock is chemically changed by heat or pressure to form a new rock type. Sedimentary rocks form when fragments of rocks and other debris are cemented together.

Igneous Rocks

When a candle burns, a runny wax is formed that trickles down its side and solidifies. Igneous rocks are formed in a similar way. The rocks solidify from a mass of molten rock, such as when a lava flow cools and hardens. Because of the heat needed to form igneous rocks, they are sometimes called "rocks of fire." There are two main types of igneous rock: extrusive and intrusive. Extrusive types form when molten rock comes to the surface and cools quickly, as with lava. This produces a very fine-grained rock. Intrusive rocks are those that solidified underground, cooling slowly to produce coarse-grained rocks. Examples: Granite, basalt, obsidian.

#### Sedimentary Rocks

Sedimentary rocks are formed when sediment (bits of rock plus materials such as shells and sand) get packed together. They can take millions of years to form. You never know what you might find in a sedimentary rock since many rocks of this type are made up of lots of other rocks, or even animal remains, all stuck together. Sedimentary rocks are built up of particles laid down as layers or beds of sediment and are later buried, compressed, and cemented into a solid mass. Most rocks that you see on the ground are sedimentary. Examples: Sandstone, shale, limestone.

Metamorphic Rocks

Metamorphic rocks are igneous or sedimentary rocks that have been transformed by heat, pressure, or both. Metamorphic rocks are usually formed deep within the Earth, during a process such as mountain building. When you bake bread, you mix flour, yeast, and water together and bake in a hot oven. In a similar way, heat and pressure from the overlying rocks, may change the nature of the rocks below. This process is called metamorphosis, which means "change." Examples: Schist, slate, marble.

#### Did You Know?

Most of the ocean floor is made of basalt. This igneous rock continues to flow from the Earth through an underwater mountain ranges known as "mid-ocean ridges"?

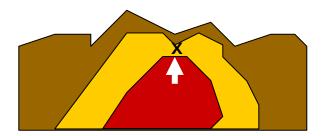
<u>Questions</u> - Please write your answers in complete sentences!	
1. What is the difference between rocks and minerals?	
e i	
2. How many types of rocks make up the Earth's crust?	
and the state of t	
3. What are the names of the 3 types of rocks?	
4. How are igneous rocks formed?	
5. What is another name for ignorus rocks?	
5. What is another name for igneous rocks?	
6. What is the difference between to two types of igneous rocks?	
a digital professional television of the control of	
7. How are sedimentary rocks made?	
8. How are metamorphic rocks made?	
telffiller of section eases it at an extra expension	
9. What does the word "metamorphosis" mean?	
	Maria de la companya

Name	Date	
Three Types of Rocks Question Sheet		
What is the difference between rocks and minerals?		
2. Name 3 types of rock on Planet Eart	h.	
3. How are sedimentary rocks formed?		
4. How are igneous rocks formed?		
5. How are metamorphic rocks made?		

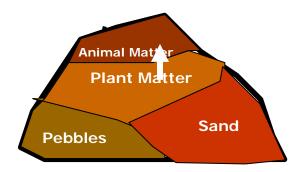
### **Label the Three Types of Rocks**

Rocks are classified according to how they are formed. **Igneous rocks** are formed when hot molten rock cools and hardens. **Sedimentary rocks** are formed when very small pieces of rock settle and harden. **Metamorphic rocks** are formed by adding heat and pressure to igneous and sedimentary rock.

Label the type of rock that is being formed in each picture:



1.



2. \_\_\_\_\_



3. \_\_\_\_\_