Name_____ Date_____ Section_____ **Earth Science Notes 3.4**

AIM: What is the Rock Cycle? **Unit 3:** Rocks and Minerals: How does the Earth make rocks?

Do Now:

1) Can a mineral have a flat edge and not have cleavage? Explain: _____

_____

2) The identity of a rock will change if we change its _____

3) Carefully observe the 4 mineral samples at your lab table. Record the name of each sample and fill in the chart below.

Letter	Mineral Name	Luster (metallic/nonmetallic)	Cleavage/fracture

By the end of this class you should be able to:

- ☐ Identify the three groups of rocks and describe how they form
- ☐ Read and interpret the rock cycle diagram on page 6 of the ESRT

Rock Cycle Game You will cycle through different stations during this game. At each station, you will roll a die and record what it tells you to do and where it tells you to go. When we switch, follow those instructions. Make sure you record every step of your journey in the Rock Cycle.

Station where you started at (name)	Instructions (what the die tells you to do)	What will be your next station? (If you have to stay, write down the name of the station that you're at)	New vocabulary (write down any words that you cannot define)
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Key Terms/Concepts Notes/Explanations

A **rock** is a _____

1. A rock can form from _____

   _____

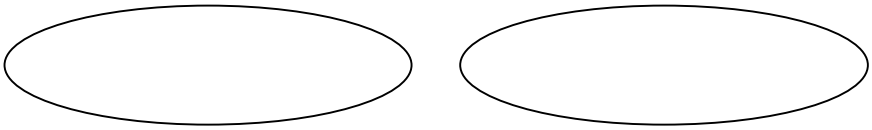
2. Rocks are put into 3 categories based on _____

3. On page _____ of the ESRT, you will find a diagram showing the Rock Cycle in Earth's Crust

How to read the Rock Cycle Diagram:

☐ 3 types of rocks are in rectangles.: the three types of rocks are

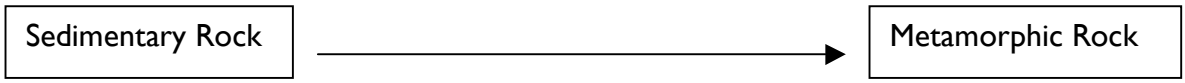
☐ The material used to make the rocks are circled; the two main materials used to make rocks are:



☐ The arrows point to what is created or the _____

☐ The words on the arrows describe what **process** is used to produce (make) the each rock or material

Example: On the arrow below, describe what you have to do to sedimentary rock in order to make metamorphic rock



Try It Out:

1) If you melt metamorphic rock, what will you produce? _____ ___
2) What do you do to rocks in order to produce sediments? _____
3) What do you do to sediments in order to make sedimentary rock? _____

   _____

Summary & Reflection:

HW: Read pages 218-222 in your textbook. Take a separate sheet of paper, put a heading on it and answer questions **3, 4-10, 12, 13, 14, 15**

Do NOT just write the answer to the question. Write your answers in full sentences.

Example: Question #1: A mineral CANNOT be (1) organic (2) crystalline (3) a solid (4) formed in nature

Your answer should be: *A mineral cannot be organic.* **DO NOT WRITE**: *#1) choice 1*