Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4

Rocking the Rock Cycle

Date \_\_\_\_\_\_\_\_\_\_\_\_\_ Per\_\_\_\_\_\_

**Objective:** Develop a model to describe the cycling of Earth’s materials and the flow of energy that drives this process.

* **Introduction:** Different types of rocks behave differently under different conditions. Heat, pressure, erosion, etc. are some of the conditions that can be applied to rocks, and depending on what they are, they will become different types of rocks according to the Rock Cycle. In this activity, you will pretend to be different types of rocks. You will start at any one of the five stations, and depending on what you experience (by rolling the dice) you may move to another station or remained stuck at the same station.
* **Procedure:**
* **Part 1 (Wednesday)**
* 1. Working individually, begin by choosing a rock station around the room to start at. Record *Current Rock Type*.

2. Roll the dice, and according to the Rock Cycle Stationsheet, you will undergo a change (pressure, heat, hurricane, volcanic eruption) and will move or stay depending on how your type of rock would respond. For example, if you are an igneous rock, and roll a number that indicates weathering, you will become sediment, and so you would move to the Sediment station and roll again. 3. Repeat this for several rounds, while recording your data at each *Rock Cycle Station*.

**Part 2 (Thursday) 40 points possible/Due Friday!**

1. Make a “Poster Model” of your rock cycle by drawing, step by step the order of the stations you rotated through using your *Rocking the Rock Cycle Data Table*.

2. Start by labeling the 5 rock stations: *Igneous, Sedimentary, Metamorphic, Sediments and Magma*

3. Draw and number arrows to show the order you (the rock) moved to. Label arrows explaining the effect on you (the rock).

4. Draw pictures, cut out pictures from magazines, or print pictures from a computer to show the 5 rock stations. *(Igneous, Sedimentary, Metamorphic, Sediments and Magma)*

5. **Color** your poster!

**Rocking the Rock Cycle Data Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Current Rock Type** | **Number Rolled on Die** | **Effect on Rock** | **New Rock Type** |
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