**Title:** Rock Density Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Purpose:** To find the density of common rocks found on Earth and predict where they would be in Earth.

**Materials:**

1. Zip lock bags with 5-7 rocks (sandstone, limestone, granite, basalt, pumice or lava, quartz, etc.)
2. Calculators
3. Overflow Cans
4. Graduated Cylinder
5. Triple beams

**Prediction:**  Using any kind of method, predict which rock will be the most dense and which will be the least.

**Procedure:**

1. Measure the mass of each rock.
2. Use the overflow cans and graduated cylinders to measure the volume of each rock.
3. Use the formula for density to figure out the density of the rock. D = M

V

**Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Rock#** | **Name** | **Mass (g)** | **Volume**  **(ml)** | **Density**  **(g/ml)** |
| **1** |  |  |  |  |
| **2** |  |  |  |  |
| **3** |  |  |  |  |
| **4** |  |  |  |  |
| **5** |  |  |  |  |
| **6** |  |  |  |  |
| **7** |  |  |  |  |

**Analysis:**

1. Did any of the rocks surprise you? Why?

2. Use data from your text on the density of Earth’s layers. What layer would these rocks be found in?

3. You were not given rocks from Earth’s core because they are not available. Why?

**Conclusion:** 2 things you learned.