

Density Lab

Name: _____

Date: _____

Per. _____

Answer the following question before you begin the lab.

1. What is density? _____
2. Draw the density wheel below:
3. Density is the concentration of _____.
4. What variables determine an objects density? _____ & _____

Determine the density of the **regular shaped** objects.

| Object | Mass (g) | Volume (ml) | Density (g/ml) |
|--------|----------|-------------|----------------|
| A | | | |
| B | | | |
| C | | | |
| D | | | |
| E | | | |
| F | | | |

Rank the objects in order from the **most dense** to the **least dense**.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Determine the density of the **irregular shaped** objects

| Object | Mass (g) | Volume (ml) | Density (g/ml) |
|--------|----------|-------------|----------------|
| G | | | |
| H | | | |
| I | | | |
| J | | | |

Rank the objects in order from the **most dense** to the **least dense**.

1. _____
2. _____
3. _____
4. _____

Determine the density of water. (**Hint:** make sure you measure the mass of the graduated cylinder before measure it with the water.)

| | Mass (g) | Volume (ml) | Density (g/ml) |
|-------|----------|-------------|----------------|
| Water | | | |

Of all the substances measured, which of them are less dense than water?

