

UNIT 2 | HANDOUT | _____

Density Practice

Find the density of the following items.

1. The mass of an object is 240g and its volume is 60cm^3 . _____
2. The mass of an object is 18g and its volume is 9cm^3 . _____
3. A cube has a side of 3cm. Its mass is 54g. _____
4. A rectangular prism has a mass of 8g and has a height of 3cm, a length of 8cm, and a depth of 5cm. _____

For each item below, say if it will float or sink in water.

1. Gold, 19.32 g/cc. _____
2. Iron 7.87 g/cc. _____
3. Oxygen, 0.00133 g/cc. _____
4. Magnesium, 1.74 g/cc. _____
5. Benzene, 0.88 g/cc. _____

Below are the densities of several liquids. We learned that objects with lower densities float on top of those with a higher density. Below are six liquids.

1. Put the following objects in order from most dense to least dense.

Liquids:

- _____ Water (1 g/mL)
- _____ Rubbing Alcohol (0.79 g/mL)
- _____ Corn syrup (1.36 g/mL)
- _____ Honey (1.42 g/mL)
- _____ Dish soap (1.06 g/mL)
- _____ Vegetable oil (.92 g/mL)

2. Fill in the cylinder to the right with the correct order of liquids. Ex: which liquid would be on the bottom? Which is in the middle?

