

# DENSITY

Density can be described as the amount of matter that is in a given amount of space. If two objects have equal volume, but one has more mass, the one with more mass is denser. **(3.1h)**

Topic: Density- Test Tube Rainbow

Goal: I will be able to see density at work.

Do Now: Make a list of objects that float when you put them in water.

# Test Tube Rainbow

- With your group, you are going to pour different liquids into your beaker.
  - *Corn Syrup*
  - *Water (with food color added)*
  - *Cooking Oil*
- Make a prediction: What do you think will happen? Color, label, and explain.
- Add the liquids in the order listed above
- Color, label, and explain.

# What is density?

- **Density**: is how compact a substance (solid, liquid, gas) is
- Density = Mass / Volume
- Objects will float in a fluid that is more dense than itself.
- Objects will sink in a fluid that is less dense than itself.
- Objects that have the same density will not sink or float, but will stay at the same level.

## Questions 1-4

- With your group, answer the four questions on the back of your worksheet