

# Density Notes

## What is Density?

- It is a \_\_\_\_\_ of all matter \_\_\_\_\_
- Compares the \_\_\_\_\_ of the \_\_\_\_\_ of different \_\_\_\_\_ . (same \_\_\_\_\_ different \_\_\_\_\_)

## Formula:

- Density = mass/volume
- units are g/ml or g/cm<sup>3</sup>

## Density of Water

- Most density calculations are based on the \_\_\_\_\_.
- Water's density is \_\_\_\_\_ or \_\_\_\_\_.
- \_\_\_\_\_ of water has a mass of \_\_\_\_\_ so 100g/100ml = 1g/ml

## Sink or Float?

- Solids & liquids with a density \_\_\_\_\_ will \_\_\_\_\_ on water.
- Solids & liquids with a density \_\_\_\_\_ will \_\_\_\_\_ in water.
- When 2 liquids have different \_\_\_\_\_, the \_\_\_\_\_ (heavier) liquid will \_\_\_\_\_ below the \_\_\_\_\_ (lighter) liquid. The less dense liquid will \_\_\_\_\_ on top.
- Adding the liquids in \_\_\_\_\_ does not change this!!

## Water or What???

- The \_\_\_\_\_ of different substances can have different masses and thus, different \_\_\_\_\_.