**Vocabulary:** **Density via Comparison**



**Vocabulary**

* Density – the amount of mass in a given volume.
	+ Density is calculated by dividing mass by volume: *D* = *m* ÷ *V*.
	+ Density of liquids is usually measured in grams per milliliter (g/mL).
	+ Density of solids is usually measured in grams per cubic centimeter (g/cm3).
* Mass – the amount of matter in an object.
	+ In the metric system, the basic units of mass are the gram (g) and kilogram (kg). A paper clip has a mass of about one gram.
	+ Mass is similar to weight but is not exactly the same. Your weight depends on the gravity of the planet you are on. If you went to the Moon, your *mass* (amount of matter that makes you up) would be the same, but your *weight* would be much less than on Earth because the Moon has less gravity than Earth.
* Volume – the amount of space an object occupies or takes up.
	+ In the metric system, the basic unit of volume is the liter (L), which is about two pints.
	+ The volume of a small amount of liquid is expressed in *milliliters* (mL), while the volume of a small amount of solid is expressed in cubic centimeters (cm3 or cc). One cubic centimeter is equivalent to one milliliter.