Name	•	
name	•	_

DENSITY WORKSHEET #2

$D = \frac{m}{V}$	m = DV	$V = \frac{m}{D}$		
<pre>m = mass (units are g) V = volume (units are mL or cm³) D = density (units are g/mL)</pre>				

Before calculating:

units for mass must be converted to g units for volume must be converted to mL (or cm³)

- 1. Find the density of tin if 0.065 kg of tin has a volume of 0.0089 L.
- 2. Find the density of lead if 0.340 kg has a volume of 30 mL.
- 3. Find the density of air if 1.0 L has a mass of 1290 mg.
- Find the density of helium if 0.4 kg has a volume of 2.241 mL4.
- 5. If the density of gold is 19.3 g/mL find the mass in g of 1.6 L of gold.
- If the density of uranium is 18.95 g/mL find the mass in mg of 6. 25 uL of uranium.
- Find the mass in mg of 4.0 L of hydrogen if the density of 7. hydrogen is 0.0000899 g/mL
- Find the mass in kg of 25 L of copper if the density of copper 8. is 8.96 g/mL.
- 9. What is the volume of 25 mg of iron in μ L given that the density of iron is 7.874 g/mL.
- What is the volume 12.0 kg of air in kL if the density of air 10. is 0.00129 g/mL
- What is the volume in kL of 1.0 Mg of mercury if the density of 11. mercury is 13.55 g/mL
- 5 kg of a plastic has a volume of 4.8 L. Water has a density 12. of 1 g/mL. Will this plastic float on water or sink?

- 1. 7.30 q/mL
- 178.4 g/mL 4.
- 7. 359.6 mg
- 10. 9.302 kL
- 2. 11.33 g/mL
- 5. 30880 g
- 8. 224 kg
- 11. 0.0738 kL
- 0.00129 g/mL3.
- 6. 473.75 mg
- 9. 3.175 µL