MEASUREMENTLAB

Obtain your 7 assigned items from the teacher:

List the objects and perform the following:

Item	Mass	Change to Weight	Volume	Density
			in cm ³ or mL	

PROBLEMS:

1. You are on a planet whose mass is much larger than the Earth's. How will this affect your weight?

Why?

2. You are on a planet whose mass is much smaller than the Earth's. How will this affect your mass?

Why?

3. Would there be a difference in your weight if you first weighed yourself in Death Valley and then on Mt. Everest?

Explain.

- 4. What is the volume of a cup of water with a mass of 350 grams? (a) (b) (c)
- 5. What is the volume of a 4500 g liquid with a density of 7.5 g/mL? (a) (b) (c)
- 6. What is the volume of a 500 gram sample of water? (a) (b) (c)

7. Calculate the density of an irregular object with a mass of 16 g and a volume of 25 mL. (a) (b) (c)

8. Calculate the density of a regular object with a mass of 450 g and a volume of 150 cm^3 .

(a) (b) (c)

9. Calculate the density of a regular object with a mass of 1500 g and a volume of 359 cm^3 . (c)

(a) (b)

10. Calculate the density of an irregular object with a mass of 950 g and a volume of 50 mL.

(a) (b) (c)