**Gen Chem: Measurment Lab**

**Instructions**

* *Make measurement in centimeters (why?)*
* *Report values to 2 decimal places*

**Supplies**

- plastic block - wooden block - oddly shaped plastic

- 100 mL graduated cylinder - Ruler - top loading balance - calculator

**Activity**

1) Determine, via measurement, the volume of plastic box

ID (yours): \_\_\_\_\_\_\_\_ dimension 1: \_\_\_\_\_\_\_\_\_\_\_dimension 2: \_\_\_\_\_\_\_\_\_\_\_dimension 3: \_\_\_\_\_\_\_\_\_\_\_

*Volume calculation (show below):*

ID (others): \_\_\_\_\_\_\_\_ dimension 1: \_\_\_\_\_\_\_\_\_\_\_dimension 2: \_\_\_\_\_\_\_\_\_\_\_dimension 3: \_\_\_\_\_\_\_\_\_\_\_

*Volume calculation (show below):*

2) Determine, via measurement, the volume, mass and density of wood block

ID (yours): \_\_\_\_\_\_\_\_ dimension 1: \_\_\_\_\_\_\_\_\_\_\_dimension 2: \_\_\_\_\_\_\_\_\_\_\_dimension 3: \_\_\_\_\_\_\_\_\_\_\_

*Volume calculation (show below):*

*Mass:*

Density:

ID (others): \_\_\_\_\_\_\_\_ dimension 1: \_\_\_\_\_\_\_\_\_\_\_dimension 2: \_\_\_\_\_\_\_\_\_\_\_dimension 3: \_\_\_\_\_\_\_\_\_\_\_

*Volume calculation (show below):*

*Mass:*

Density:

3) Determine, via measurement, the density of a can (Volume of cylinder = π r2 h) – ***work in pairs***

ID (yours): \_\_\_\_\_\_\_\_\_\_\_ dimension 1 (r): \_\_\_\_\_\_\_\_\_\_\_dimension 2 (h) : \_\_\_\_\_\_\_\_\_\_\_mass: \_\_\_\_\_\_\_\_\_\_\_

*Calculation (show below):*

4) Determine, via measurement, the density of a sphere (Volume of cylinder = 4/3 π r3) – ***work in pairs***

ID (yours): \_\_\_\_\_\_\_\_\_\_\_ dimension 1 (r): \_\_\_\_\_\_\_\_\_\_\_ mass: \_\_\_\_\_\_\_\_\_\_\_

*Calculation (show below):*

5) Determine, via water displacement, the volume of an oddly shaped piece of plastic

Description (yours):

*Volume:*

*Mass:*

Density:

Description (others):

*Volume:*

*Mass:*

Density: