**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: