**WEEK 11 – Weight Estimation**

**Grade:** Intermediate (7-8)

**Unit:** Measurement

**Activity
1)** Your task here is to collect and compare a series of objects, comparing and then measuring their weights and capacity, converting the measurements **2)** First you will need to find 6 objects in your house that you can weigh. Estimate their weights and put them on the recording sheet below, ranking them in order from estimated heaviest to lightest
**3)** Repeat step 2 for objects that carry liquid and can be measured in capacity
**4)** Once you have estimated the measurements, record their actual measurements in kg and mL, note how close you were to your estimate
**5)** You will then use your knowledge of the metric system to convert the actual measurement to the given unit (grams or litres)
**Note:** Ideally, you will measure the objects yourself (weigh yourself and then yourself holding the object to determine the weight, use a measuring cup to determine capacity etc.) however if this is not an option, you may search or use estimations, as long as you convert

**Curriculum Expectation**
solve problems that require conversion between metric units of measure (e.g., millimetres and centimetres, grams and kilograms, millilitres and litres)

**Check for Understanding**
I can convert units of measurement on the metric system
I can collect a series of data based on given criteria
I can provide a reasonable estimate of a chosen object when given the unit

**Materials**
Recording chart (attached below), pencil, a series of household objects, understanding of the metric system

Measurement of Household Objects

|  |  |  |  |
| --- | --- | --- | --- |
| **Object**  | **Estimated Weight (kg)** | **Actual weight (kg)** | **Conversion to g** |
| Cell Phone | 0.25 kg | 0.174 kg | 174 g |
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| **Object**  | **Estimated Capacity in (mL)** | **Actual capacity (mL)** | **Conversion to L** |
| Spoon | 25 mL | 15 mL | 0.015 L |
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