

## **Lesson 5 – Maths Investigation Lesson 19<sup>th</sup> June 2020**

Below you will find two sets of questions, one for **Mass** and one for **Capacity**. You will also have a table to record results in, again one for **Mass** and one for **Capacity**.

You will have look around home and find different object that you can weigh and others that can you can hold liquids. (We suggest you use water).

Once you have found 5 objects that fit each then record your results in the corresponding tables. (If there is one that fits both categories you may use for both)

Happy hunting!

***Use your table of weight measurements to answer these questions.***

1. Write the items in ascending order of actual weight.
2. What is the difference in weight between the heaviest item and the lightest?  
(Actual weights)
3. What is the total weight of the heaviest three items?
4. What is the total weight of the lightest three items?
5. What is the total weight of all six items?
6. Take the heaviest item. What would two of them weigh?
7. What would three of them weigh?
8. What is half its weight?
9. What is a third of its weight?
10. What is the average of all the items you weighed? Any ideas?

***Use your table of liquid measurements to answer these questions.***

1. If you fill a big bottle & small bottle from the bucket, what's left in the bucket?
2. If you fill a square tub from the big bottle, what will you have left?
3. If you fill 2 round tubs from the big bottle, what will you have left?
4. How much do 3 cups hold?
5. How much do 4 cups hold?
6. How many cups can you fill from a big bottle?
7. What does a  $\frac{1}{4}$  of a big bottle hold?
8. How many square tubs can you fill from a big bottle?
9. What is a  $\frac{1}{10}$  of a big bottle?
10. How many times can you pour 50 ml from a big bottle?
11. What is a  $\frac{1}{10}$  of a small bottle?
12. What is a  $\frac{1}{3}$  of a big bottle?

*How much does each item weigh?*

List six items	Estimate the weight kg or g	Measure the actual weight	How far out were you?
1.			
2.			
3.			
4.			
5.			
6.			

## *How much does each vessel hold?*

litre = 1000 ml

E.g. bucket, square tub, big bottle, cup, small bottle, round tub

Vessel	Estimate the volume	Measure the actual volume	How far out were you?
1.			
2.			
3.			
4.			
5.			
6.			