



# MASS and CAPACITY

## KNOWLEDGE ORGANISER

Year 3



### Overview



**Mass and Capacity** we learn to:

- Compare Mass    -Measure Mass
- Compare Volume    -Measure Capacity
- Compare Capacity    -Temperature
- Add/Subtract Mass    -Add/Subtract Capacity

This learning is important because it helps us to understand and measure the weight and volume of things in the world around us. We will be able to live healthy lifestyles, as we will be more aware of healthy body weight and food/ drink quantities.

### Capacity

-Capacity is the amount of liquid that a container can hold.

-Volume is the amount of liquid in a container. The volume can change.



Small amounts of liquid are measured in millilitres. We write this as ml.

We can use small measuring cylinders to measure in millilitres.

The items on the left are measured in millilitres.

1000 millilitres (ml) = 1 litre (l)



Larger amounts of liquid are measured in litres. We write this as l.

We can use measuring jugs to measure in litres.

The items on the left are measured in litres.

### Mass

-When we measure mass, we find how heavy or light something is.



A gram (g) is a small unit of measurement that we can use to measure how heavy or light something is.

The objects on the left would normally be measured in grams.

1000 grams (g) = 1 kilogram (kg)



A kilogram (kg) is a larger unit of measurement that we can use to measure how heavy or light something is.

The objects on the left would normally be measured in kilograms.

### Adding and Subtracting Mass and Capacity

#### Adding and Subtracting Mass

We should use the knowledge that 1000 grams = 1 kilogram when adding and subtracting mass.

$$700g + 400g = 1kg\ 100g$$

$$1kg - 200g = 1000g - 200g = 800g$$



#### Adding and Subtracting Capacity

We should use the knowledge that 1000 grams = 1 kilogram when adding and subtracting capacity.

$$900ml + 600ml = 1l\ 500ml$$

$$1l\ 200ml - 400g = 1200ml - 400ml = 800ml$$



### Key Vocabulary

Mass    Gram    Kilogram    Lighter    Heavier    Capacity    Volume    Litre    Millilitre    Addition    Subtraction    Measure