






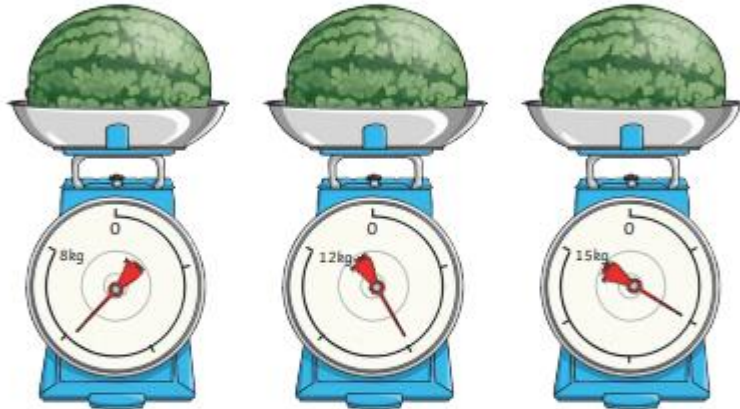
Year 3 Mass and Capacity Knowledge Organiser.

| Mass and Capacity | Knowledge Organiser | | | | |
|---|--|--|---|---|---|
| Key Vocabulary | Measure and Compare Mass | | | | |
| mass | <div style="border: 1px solid #f44336; padding: 5px; margin-bottom: 10px;"> <p>Scales can be used to measure grams.</p> </div> <div style="border: 1px solid #f44336; padding: 5px; margin-bottom: 10px;"> <p>A gram is a unit of measurement that is used to measure the mass of something.</p> </div> <div style="border: 1px solid #f44336; padding: 5px;"> <p>Grams can be written as g.</p> </div> |  | <div style="border: 1px solid #f44336; padding: 5px; margin-bottom: 10px;"> <p>Scales can be used to measure kilograms.</p> </div> <div style="border: 1px solid #f44336; padding: 5px; margin-bottom: 10px;"> <p>A kilogram is a unit of measurement that is greater than a gram. It is also used to measure the mass of something.</p> </div> <div style="border: 1px solid #f44336; padding: 5px;"> <p>Kilograms can be written as kg.</p> </div> |  | |
| gram | | | | | |
| kilogram | | | | | |
| capacity | | <div style="border: 1px solid #f44336; padding: 5px; width: fit-content; margin: 0 auto;"> $1000g = 1kg$ </div> | <p>To compare mass, we can use the words 'heavier' and 'lighter'.</p> | | |
| volume | Measure and Compare Capacity | | | | |
| millilitre | <p>Capacity is the amount of liquid a container can hold.</p> <p>Volume is how much liquid is in the container.</p> |  | <div style="border: 1px solid #f44336; padding: 5px; margin-bottom: 10px;"> <p>Measuring jugs can be used to measure larger volumes.</p> </div> <div style="border: 1px solid #f44336; padding: 5px; margin-bottom: 10px;"> <p>Greater volumes are measured in litres.</p> </div> <div style="border: 1px solid #f44336; padding: 5px;"> <p>Litres can be written as l.</p> </div> |  | |
| litre | | | <div style="border: 1px solid #f44336; padding: 5px; width: fit-content; margin: 0 auto;"> $1000ml = 1l$ </div> | | <p>To compare capacities, we can use the word 'full'.</p> |
| lighter | | | | | |
| heavier | | | | | |
| millilitre | | | | | |
| litre | | | | | |
| lighter | | | | | |
| heavier | | | | | |
|  visit twinkl.com | | | | | |

Reading Scales

Mass

Each of the melons has a mass of 6kg but the arrows are all pointing at different points on the scales. This is because each of the measuring scales have different increments marked on them.

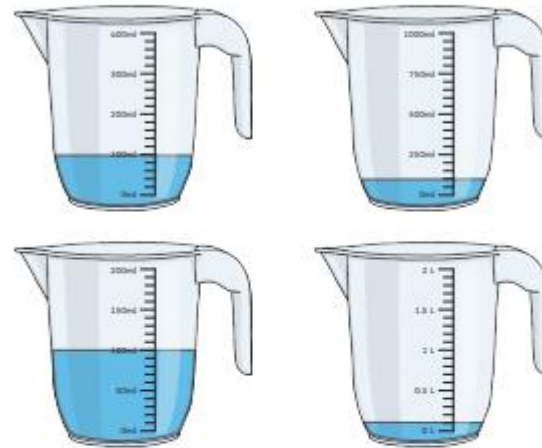


Always look carefully at how the numbers on the scales increase when reading a measurement.

Knowledge Organiser

Capacity

Measuring containers all have different capacities.

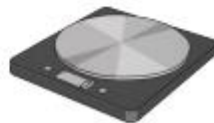


Each of these containers contain the same volume of 100 millilitres but have different capacities and scales. Always look carefully at how the numbers on the scales increase when reading a measurement.

Add and Subtract Mass

$$600\text{g} + 500\text{g} = 1100\text{g} = \mathbf{1\text{kg } 100\text{g}}$$

$$1\text{kg} - 300\text{g} = 1000\text{g} - 300\text{g} = \mathbf{700\text{g}}$$



Add and Subtract Capacities

$$800\text{ml} + 400\text{ml} = 1200\text{ml} = \mathbf{1\text{l } 200\text{ml}}$$

$$1\text{l } 300\text{ml} - 200\text{ml} = \mathbf{1\text{l } 100\text{ml}}$$

