

# Science Knowledge Organiser

## States of Matter (Term 5)

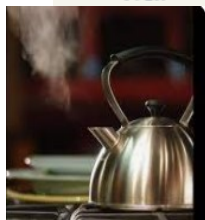
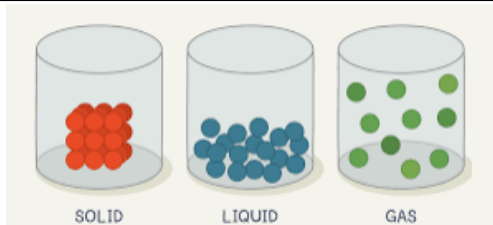
## Year 4

### Our learning

In our science lessons this term, we will be learning about states of matter. This is part of the **chemistry** aspect of science. Through our learning we will be considering the **cause and effect** of simple scientific processes.

We will learn how materials can be solid, liquid or gas.

We will link this to the **water cycle**.



When water is heated it turns into a gas (steam).



When water is frozen it changes into a solid (ice)

### Information

A **material** can be a **solid**, a **liquid** or a **gas**.

Some materials change when they are heated and cooled.

A solid keeps its shape and its **volume** stays the same.

A liquid's volume also stays the same but changes in shape to fit the container it is in.

A gas has **no definite volume** and fills all available space.

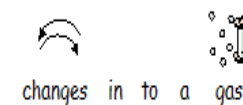
Water freezes at 0 degrees Celsius and boils at 100 degrees Celsius.

### As a scientist I will...

- Make careful observations
- Take accurate measurements

### Vocabulary

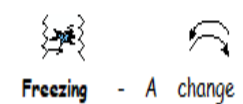
**Evaporation** - When a liquid is heated and changes in to a gas



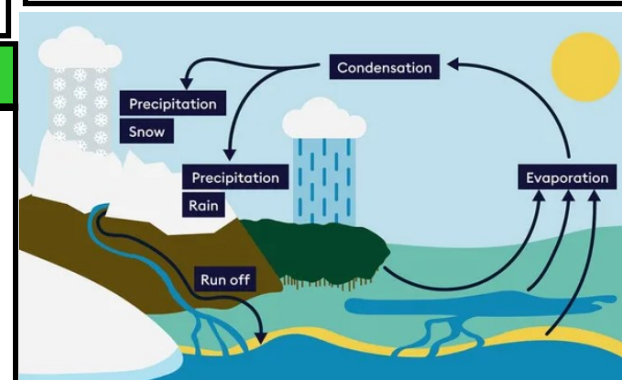
**Condensation** - When a gas cools and becomes a liquid



**Temperature** - How hot or cold something is



**Freezing** - A change of state from liquid to solid



The Water Cycle

