solid.



a liquid to a gas.

Matter takes up space and can be weighed. There are three states of matter: solid, liquid and gas. Liquids have a fixed volume Solids have a fixed shape Gases do not have a fixed and volume. The shape can but not a fixed shape. They shape or volume. They will be changed by applying a will flow when poured and spread out to fill a container. take the shape of the force. container they are in. solid liquid qas evaporating melting condensing freezing cold hot Cooling a liquid Cooling a gas below Heating a solid Heating a liquid below its **freezing point** will cause it above its **melting** its condensing point above its **boiling** point will cause it will cause it to point will cause it condense. to freeze. Freezing to melt. Melting is to evaporate. Condensing is a is a change of state a change of state **Evaporating** is a change of state from from a liquid to a from a solid to a change of state from

liquid.

a gas to a liquid.

Science - States of matter

C Kapow Primary

Temperature affects the **rate** (how quickly) at which **changes of state** happen. The windier and hotter the weather, the faster the **evaporation rate**.

Water is a material that can exist in all three states depending on the temperature.



The water cycle is being affected by **climate change**. Increasing temperatures are causing:

- Melting of ice and snow; leading to rising sea levels.
- Faster evaporation rates:
 - causing more rainfall in some areas, leading to *flooding*;
 - causing less rainfall in some areas, leading to droughts.



The water cycle is the constant movement of water from one place and state to another:

- **Evaporating**: water in water stores, such as seas and lakes, is heated by the Sun and evaporates into water vapour.
- **Condensing**: water vapour cools as it rises and condenses to form clouds; tiny liquid droplets of water.
- **Precipitation**: water falls from the clouds in a liquid state (e.g. rain) or a solid state (e.g. snow).
- **Run-off**: precipitation runs off the land into rivers and streams and back to water stores like the sea.