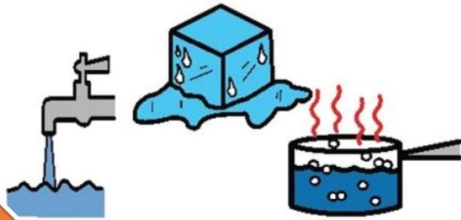


Y4 Sorcerer's Apprentice

(states of matter)

States of Matter



Key Learning Objectives:

- Compare and group materials together, according to whether they are solids, liquids or gases
- Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)
- Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

How you can help at home:

- Discuss how solids, liquids and gases can change state.
- Discuss how some familiar materials can exist in different states, e.g. water.

Key Vocabulary

| Word | Definition |
|----------------|---|
| solid | Particles are close together, are arranged in a regular way, can vibrate but cannot move and cannot be compressed. |
| liquid | Liquid particles are close together, are arranged in a random way, move around each other, take on the shape of the container and cannot be compressed. |
| gas | Gas particles are arranged in a random way, are far apart and move quickly in all directions. |
| changing state | When a substance changes between a solid, liquid or gas. |
| particles | Everything is made up of tiny particles joined together. |
| evaporation | When a liquid changes state into a gas. |
| condensation | When a gas changes state into a liquid. |
| precipitation | Rain, sleet, hail, snow or rime ice that falls from a cloud. |