

Knowledge Progression

What are solids, liquids and gases?

Which liquids move the fastest?

Does gas have weight?

What happens to solids when they are heated?

Can we change the state of wax?

Do all liquids freeze?

What is the water cycle?

Skills Progression

To be able to use a scientific enquiry to answer a question.

To be able to report on findings from an enquiry.

To be able to set up a simple practical enquiry.

To be able to make systematic and careful measurements.

To be able to identify differences, similarities or changes related to simple scientific ideas.

To be able to set up simple fair tests.

Year 4 States Of Matter Science Knowledge Organiser

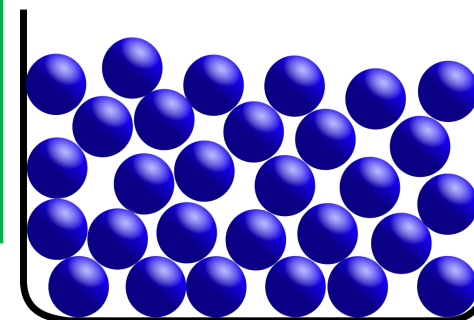
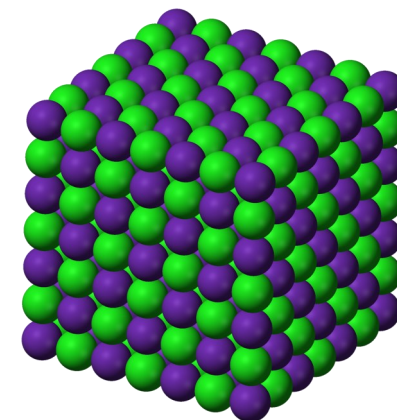
Knowledge

Skills

Vocabulary

Curriculum Coverage

- 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 ($^{\circ}\text{C}$)
- identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature



Scientific vocabulary

States of Matter, solid, liquid, gas, change, reversible, irreversible, melt, freeze, evaporate, condense, precipitation, melting point, freezing point, temperature, thermometer, particles, pour, containers, shape,

Scientific enquiry

What happens when water is cooled? What happens when water is heated? Which materials can have a reversible change? Which materials can only have an irreversible change occur? How can I investigate the melting temperature of different solids? Where does drinking water come from?

