



Y4 Thinking like a Scientist

States of Matter

Key Knowledge

Name the three states of matter and describe their features

Group items by their state of matter

Describe how particles behave in a solid, liquid and gas

Draw scientific diagrams to support an explanation

Different solids, liquids and gases have a variety of melting, freezing and boiling points

Explain what melting, freezing and boiling point is

Make predictions based on scientific knowledge

Conduct fair tests

Explain what evaporation and condensation is

Describe each stage of the water cycle



Key vocabulary

Solid, liquid, gas, volume, matter, bond, arranged, cooled, heated, particle, rigid, thermometer, melting point, melting, temperature, reverse, freezing, boiling, room temperature, steam, evaporation, condensation, process, water vapour, absorb, water cycle, precipitation, transpiration, surface run off, groundwater, prediction, variable, fair test.



Learning Questions

Can I identify the three states of matter and discuss their features?

How can I investigate how particles behave in solids, liquids and gases?

How can I investigate melting points of solids, liquids and gases?

How can I explore freezing and boiling points of solids, liquids and gases?

What is evaporation and condensation?

Can I describe the water cycle?

