

# What I Need to Know: Y4 Science – States of Matter

*We nurture the curiosity to learn, the courage to lead and the compassion to care.*

We are learning about the properties of solids, liquids and gasses. We will explore the link between temperature and states of matter and by the end of the unit we will understand the physical processes involved within the water cycle.



## Create, Communicate & Evaluate

- Present my understanding of the water cycle, using the correct scientific vocabulary



## Question, Reason, Discuss & Explain

- Compare and group substances, according to whether they are solids, liquids or gasses
- Describe how substances can change shape
- Observe that some substances change state when they are heated or cooled, and measure or research the temperature at which this happens
- Explain the physical process involved within the water cycle (evaporation and condensation)



## Know & Do

- Know the properties of a solid, liquid and gas
- Know the link between temperature and states of matter
- Understand what a comparative test is and why we use them

## Vocabulary I need to know...

solid, liquid, gas, heating, cooling, state change, melting, freezing, melting point, boiling, boiling point, evaporation, condensation, temperature, water cycle

## Opportunities to support English and maths

- Skim and scan texts to retrieve information or quotes quickly and accurately
- Summarise main ideas from more than one paragraph
- Make and justify inferences with appropriate evidence from the text
- Provide reasoned justifications for their views, quoting evidence from across a text

## Curriculum Links and Enrichment Activities

- English: Charlie and the Chocolate factory. Melting chocolate.