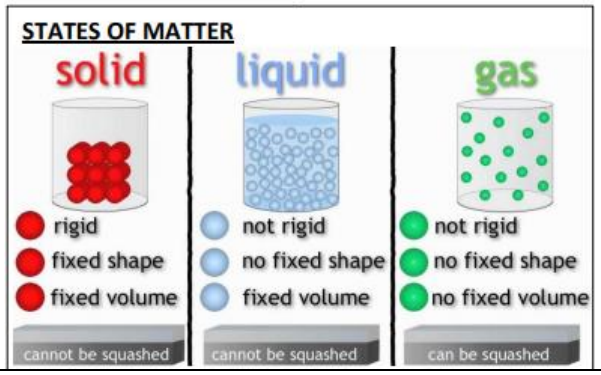
St Mary's Horsforth – Science Knowledge Organiser

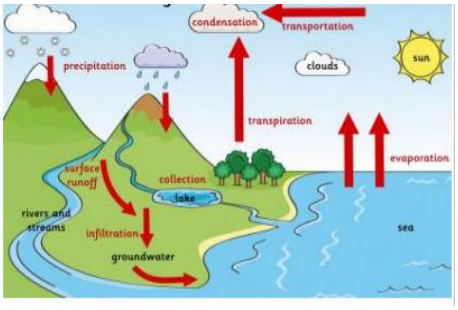
Year 4 – States of Matter – Chemistry- Autumn Half Term 1.



WATER CYCLE

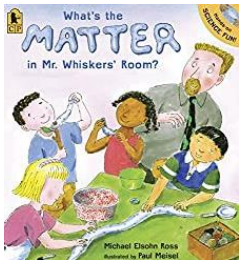
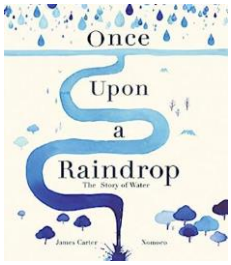
The water cycle is the journey water takes as it moves from the land to the sky and back again.

It follows a cycle of evaporation, condensation, precipitation and collection/run off.



What should I already know?	What will I know at the end of the unit?
• How to describe, group and classify every-day materials. • The shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	• I can explore and compare materials. • I can compare and group materials together, according to whether they are solids, liquids or gases. • I can observe that some materials change state when they are heated. • I can observe that some materials change state when they are cooled. • I can measure or research the temperature at which this happens in degrees Celsius (°C) of certain materials. • I can identify the part played by evaporation and condensation in the water cycle and set up an experiment to show this. • I can explain the different stages of the water cycle.

Knowledge Vocabulary	Working Scientific Vocabulary
states- solids- liquids- gases particles melting evaporation condensation precipitation freezing point degrees Celsius	sort - classify compare - similarities - differences observe gather record fair test

Recommended Reads	Inventor/ Scientist
 	Andreas Celsius  Invented the thermometer

Suggested Investigations

Observing and recording over time: Why do puddles disappear?
Identifying and classifying: Sand can be poured, so does that make it a liquid?
Comparative and fair testing: At what temperature does chocolate melt?
Observing and recording: How can I keep this drink cold?