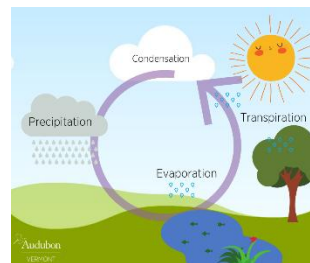


Science Knowledge Organiser Term 2

States of Matter



Key Objectives

- To compare and group materials together depending on whether they are a solid, a liquid or a gas.
- To understand how states of matter can change and explain how they change.
- To observe that some materials change state when they are heated or cooled.
- To identify the part played by evaporation and condensation in the water cycle.

Key Vocabulary

Solid	
Liquid	
Gas	
Melting	
Freezing	
Evaporating	
Condensing	
Fair test	
Hypothesis	
Freezing point	
Precipitation	

Sticky Knowledge

- **Recognising the difference between solids, liquids and gases.**
A solid keeps its shape, a liquid flows and takes the shape of a container and a gas spreads out and moves freely.
- **Know how temperature can change the state of materials.**
Heat turns solids to liquids and liquids to gases. Cold turns gases to liquids and liquids to solids.
- **Understand evaporation, condensation, melting and freezing.**
Melting turns solids to liquids. Evaporation turns liquids to gases. Condensation turns gases to liquids. Freezing turns liquids to solids. These are ways matter changes state.
- **Understand the water cycle.**
The sun heats up water from rivers, lakes and oceans which turns the water into water vapour. The vapour rises and then cools down to form clouds. When the clouds become too heavy, it starts to rain (and sometimes snow). The rain goes back into the rivers, lakes and oceans and the process starts again.