

Meadow Vale Primary School

Subject(s): Science

Year: 5



What should I already know?

• The names of the three states of matter

Topic: Properties and

changes to materials

- Different materials are used for different purposes depending on their properties: electrical conductivity, flexibility, hardness, insulators, magnetism, solubility, thermal conductivity and transparency.
- The water cycle

General vacabulary	
material	The substance that something is made out of
مملنلمم	One of the three states of matter. Solid particles are very close
	together, meaning solids, such as wood, hold their shape.
liquids	This state of matter can flow and take the shape of the container
	because the particles are more loosely packed than solid and
	can move around each other. Example are milk and water.
gases	One of the three states of matter. Gas particles are further apart
	than solid or liquid particles and they are free to move around.
	Examples are oxygen and helium.
melting	The process of heating a solid until it becomes a liquid.
freezing	When a liquid cools and turns into a solid.
evaporating	When a liquid turns into a gas or vapour.
condensing	When a gas, such as water vapour, cools and turns into a liquid
conductor	A conductor is a material that heat or electricity can easily
	travel through. Most metals are both thermal conductors (they
	conduct heat) and electrical conductors (they conduct
	electricity).
insulator	A material that does not let heat or electricity pass through
	them. Wood and plastic are both thermal and electrical
	insulators.
transparency	A transparent object lets light through so the object can be
•	looked through, for example glass and some plastics.

Scientific enquiry and skills

- Investigate how different materials can change state, such as: ice water water vapour.
- Understand the difference between reversible and irreversible changes
- Understand how particles move and behave differently



