



Autumn 1 and 2

Name of Topic

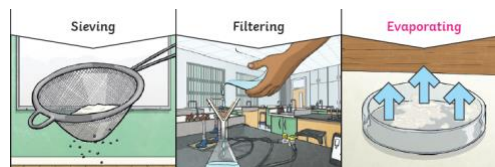
Properties and changes of materials

Year Group

5

Key Vocabulary and Spellings

1	material	A substance made of matter
2	solid	a substance that holds its shape
3	conductor	transmits heat or electricity, like copper
4	insulator	does not transmit electricity, like rubber
5	properties	quality of materials which make it suitable to a particular purpose
6	liquid	has a definite volume but not a definite shape
7	absorbent	a change that doesn't last forever
8	soundproofing	Reducing excess sound
9	gas	Have no definite shape or volume
10	transparency	Light passes through it and you can see through it



Solid



Liquid



Gas

Key Investigations

1	Thermal insulation investigation
2	Strength of paper
3	Cooking – creating

Top 5 Topic Facts

1	Materials have different properties, including their hardness, solubility, transparency, conductivity (electrical and thermal)
2	Everyday materials like a crayon can be used as candles during an emergency and can burn for up to 15 hours.
3	Materials that are conductors are made of metal.
4	Insulators do not allow heat and/or electricity to pass through it.
5	Cork can reduce sound by 10 decibels for 3mm of thickness

Key Questions of Enquiry

1	What are the different properties of materials and how can you group them?
2	How can you reduce sound?
3	How can you keep fluid hot?
4	How can you strengthen a material?