

W Pinner Wood School W



Year Group	4	Term	Summer 1	Subject	Science	Topic	States of matter
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						Key Question	What states matter?
Prior	In KS1 children should:					Skills	Scientific Enquiry
Learning and	 Distinguish between an object and the 					statements	I can group materials together, according to
other	material from which it is made.						whether they are solids, liquids or gases including
Curriculum	· Identify and name a variety of everyday						tricky ones like gels, foams, mists and pastes.
Links	materials, including wood, plastic, glass, metal,						I can demonstrate and explain that some materials
	water, and rock.						change state when they are heated or cooled
	 Describe the simple physical properties of a variety of everyday materials. 						• I can measure or research the temperature at which this happens in degrees Celsius (°C).
	 Compare and group together a variety of 						 I can correctly talk about the part played by
	everyday materials on the basis of their simple						evaporation and condensation in the water cycle.
	physical properties.						I can show a link between the rate of evaporation
	• Identify and compare the suitability of a						and temperature.
	variety of everyday materials, including wood,						·
	metal, plastic, glass, brick, rock, paper and						
	cardboard for particular uses. Find out how						
	the shapes of solid objects made from some						
	materials can be changed by squashing, bending, twisting and stretching.						
Fundamentals	compo	are and	groupmaterio	ıls togethe	 r.	Key	
	according to whether they are solids, liquids or gases					Facts/Sticky	Materials can be divided into solids, liquids and gases.
					• •	Knowledge	Heating causes solids to melt into liquids and liquids
	observe that some materials change state when they areheated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)					_	evaporate into gases. d) Cooling causes gases to
							condense into liquids and liquids to freeze into solids. •
							The temperature at which given substances change
							state are always the same.

	identify the part played by evaporation and condensation in thewater cycle and associate the rate of evaporation with temperature							
Our Curriculum	Stunning Start:							
Journey	Journey: The children's journey starts by considering what they already know about properties using the pre assessment sheet. We then move on to what happens to ice and what makes a difference to how fast ice melts. The children are then taught about melting and freezing and look at how molecules change with both. Show stopper: Complete a fact file on solids, liquids and gases and upload on to Seesaw N/A							
Key Vocabulary (revisited)	Solid, liquid, gas, particles, state, materials, properties, matter, melt, freeze, water, ice,	Key Vocabulary (new)	Solid, liquid, gas, particles, state, materials, properties, matter, melt, freeze, water, ice, temperature, process, condensation, evaporation, water vapour, energy, precipitation, collection,					