Dog Kennel Hill Primary - Science					
Topic: States of Matter Yea		r: 4		Strand: Physics	
What should I already know?				Vocabulary	
• Distinguish between and object and the material from which it is made.		Matter		Another name for 'material': what an object is made of; not just fabric.	
• Identify and name a variety of everyday materials, including wood, plastic, glass, water and rock.		Temperature		A measurement of how hot or cold something is.	
 Describe the simple physical properties of a variety of evolution of a variety of evolution of a variety of evolution and group together a variety of evolution materials. 		ty of every-	Thermometer		A device or instrument used to meas- ure temperature.
on the basis of their physical properties.		Melting		When a sold turns into a liquid.	
Identify and compare the suitability of a variety of everyday			Freezing		When a liquid turns into a solid.
materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.		Melting point		The temperature at which a solid melts.	
 Find out now the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Compare and group together different kinds of rocks on the 		Freezing point		The same temperature as a material's melting point. This is the temperature at which a liquid turns into a solid.	
 basis of their appearance and simple physical properties. Describe in simple terms how fessils are formed when things 		Evaporation		When a liquid turns into a gas, below its boiling point.	
that have lived are trapped within rock.		Boiling point		The temperature at which a liquid turns into a gas.	
Recognise that soils are made from rocks and organic matter.		Condensing		The process when a gas turns into a liquid.	
What will I know by the end of the unit?		Water cycle		How water moves around to create	
properties which I can	A material may exist in three solid. liquid. and gas.	e states:			clouds, rain and the weather.
compare and group?	·····, ······, ····· 8····		Significant People		
What are the different states of matter?	A sample of a material is in t state, can be held by hands a form into a pile. When a mat the liquid state, it cannot be hands and it forms a pool. In state, a material escapes fro unsealed container. It spread fill all the space available, an the shape of the entire conta	he solid and can terial is in held by the gas m an ds out to ad takes ainer.	Joseph Priestley (a British scientist) discovered oxygen in 1774. He also answered questions such as why and how things burn.		
How can you change a materials state?	Materials change state wher heated or cooled by freezing	n they are g, melting	Diagram		
	and boiling. You can also mea research the temperature at happens in degrees Celsius (° state change processes can b reversed.	easure and which this °C). Some be	sol	id	liquid gas
What happens when heating and cooling materials?	Some materials change state they are heated or cooled. T evaporate or create condens rate of evaporation can diffe temperature.	e when They can sation. The er with	 rigid fixed shape fixed volume cannot be squashed 		 not rigid no fixed shape fixed volume no fixed volume no fixed volume on fixed volume