

## Holy Family Catholic Primary School Cronton



Year 4: Science Summer Term 3	Unit 1: In A State T	iheme: _States of Matter	
What I should already know:	What I will know by the end of the unit:	Vocabulary	
*Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard	<ul> <li>*I can compare and group materials together, according to whether they are solids, liquids or gases;</li> </ul>	Condensation	These are small drops of water which form when water vapour or steam touches a cold surface, such as a window.
<ul> <li>For particular uses;</li> <li>*Find out how the shapes of solid objects made</li> </ul>	*I can observe that some materials change state when they are heated or cooled, and measure or	Evaporate	Process of turning from liquid into gas; pass away in the form of vapour.
squashing, bending, twisting and stretching.	degrees Celsius (°C);	Freeze	If a liquid or a substance containing a liquid freezes, it becomes solid.
* Why some materials are used for certain purposes because of their properties. Fact File	*I can identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	Gases	A form of matter that is neither liquid nor solid. A gas rapidly spreads out when it is warmed and contracts when it is cooled
Solids, Liquids and Gases		Liquids	In a form that flows easily.
What is a solid? When materials hold their shape. Their	Key Scientist		
particles are closely packed and form a regular pattern. Their shape is fixed and	<b>Dorothy Hodgkin</b> (1910- 1994) is the only British woman to have won the	Matter	Material, substance which physical objects are composed.
they will always take up the same amount of space. Examples: Ice, Wood, Glass, Diamond.	Noble Prize for Chemistry. It was for her work on the structure of substances	Melt	To change from a solid to a liquid state through heat or pressure.
<u>What is a liquid?</u> When materials hold the shape of the containers	e.g. penicillin	Precipitation	Rain, snow, sleet, dew, etc, formed by condensation of water vapour in the atmosphere.
they are in and so can change shape. Their particles are close together but can	The Water Cycle	Solids	Having a firm shape or form that can be measured in length, width, and height; not like a liquid or a gas.
move over each other. Liquids can be		Water Vapour	Water in the gaseous state
poured. Examples: Water, Milk, washing-up liquid.	Precipitation Evapotranspiration Evaporation	Did You Know That?	
What is a gas?		Warming solid ice makes it melt into liquid water. Adding more heat	
Gases can escape from open containers. They		makes it evaporate, at 100°C, into steam (a gas). When it is cooled it	
often cannot be seen. They have		condenses back into liquid water. If it is cooled to 0°C it freezes and	
particles which can spread it and move in all directions. Examples: Steam, Hydrogen, Oxygen, Carbon Dioxide.		forms solid ice.	
			Gas Liquid Solid