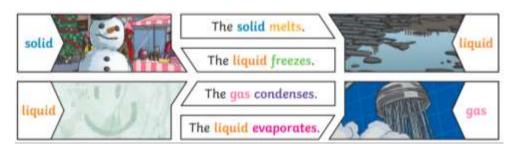
Preston Primary School Knowledge Organiser			Communication Collaboration Creativity	
pic: Science	Term: Summer 2	Year: 5/6	Du	ration: 6 weeks
Enquiry (wh	ve will take away from this Learning nat I will be learning):	Our Key Vocabulary: Word	Meaning	
 Question: Why are objects made out of different materials? I can compare and group together everyday materials on the basis of their group string. 		solid	having a firm shape or form that can be measured in length, width, and height; not like a liquid or a gas.	
	hat some materials will dissolve in	transparent	If an object is transparent, you can see through it.	
liquid to form a solution, and I can describe how to recover a substance from a solution.		soluble	Able to be dissolved.	
 I can use knowledge of solids, liquids, and gases to decide how mixtures might be separated. I can give reasons, based on evidence from comparative and fair tests, for the particular use of everyday materials, including metals, wood, and plastic. I can demonstrate that dissolving, mixing and changes of 		dissolves	When a substance is mixed with a liquid.	
		conductor	A substance that heat, or electricity canpass through or along.	
		thermal	Relating to or caused by heat or by changes in temperature.	
 state are reversible of I can explain that so new materials, and t 	le changes. some changes result in the formation of ad that this kind of change is not usually	filtering	A device used to remove dirt or other solids from liquids or gases. A filter can be made of paper, char-coal, or other material with tiny holes in it.	
reversible including	changes associated with burning and bicarbonate of soda.	evaporation	To turn from liqu	id into gas; pass away inthe

What I Already Know:

In Unit 3, we learnt to:

- Compare and group materials together, according to whether they are solids, liquids, or gases.
- Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C).
- Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

Changes of state:



Dissolving:

Dissolving a solution is made when solid particles are mixed with liquid particles. Materials that will dissolve are known as soluble. Materials that won't dissolve are known as insoluble. A suspension is when the particles don't dissolve.

For example:

Sugar is a soluble material.

Sand is an insoluble material.

Key information

Different materials are used for particular jobs based on their properties: electrical conductivity, flexibility, hardness, insulators, magnetism, solubility, thermal conductivity, transparency.

Reversible changes, such as mixing and dissolving solids and liquids together, can be reversed by:

- **Sieving-** Smaller materials can fall through the holes in the sieve, separating them from larger particles.
- **Filtering-** The solid particles will get caught in the filter paper, but the liquid will be able to get through.
- **Evaporating-** The liquid changes into a gas, leaving the solid particles behind.