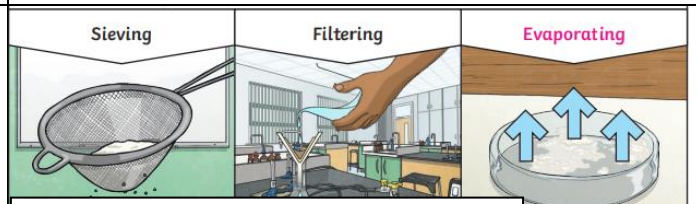
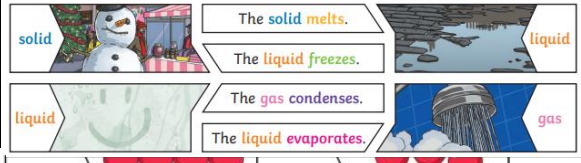
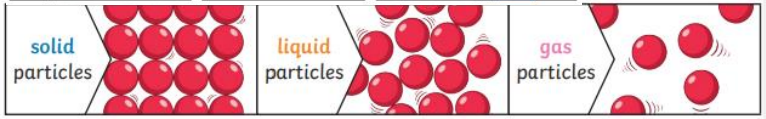
Leintwardine Endowed CE Primary School Learning Journey Key

'Letting Our Light Shine'

SUBJECT : Science	YEAR : B	TERM : Autumn 1	YEAR GROUPS : 5/6

Key Question: Which materials are changeable and which are not?

Question	Vocabulary to Use	Information which will help me	Can I....?
What are the properties of materials? How do I stop ice melting? How do I make a bulb light up? What materials dissolve? How do I separate mixtures? What changes are irreversible?	States of matter, materials, natural, human made, magnetic, reflective, absorbent, permeable, translucent, flexible, hard, flammable, insulating, transparent, solids, liquids, gases, particles, melting, freezing, evaporating, condensing, conductivity (electrical and thermal), flexibility, hardness, insulators, magnetism, soluble, insoluble, solubility, transparency, sieving, filtering, reversible change, irreversible change, reactants, mixing, dissolving.	 Ways of reversing reversible change  melting — The process of heating a solid until it changes into a liquid. freezing — When a liquid cools and turns into a solid. evaporating — When a liquid turns into a gas or vapour. condensing — When a gas, such as water vapour, cools and turns into a liquid. **Irreversible** ✕ Burning ✕ Rusted metals ✕ Heating food ✕ Mixed ingredients  conductor — A conductor is a material that heat or electricity can easily travel through. Most metals are both thermal conductors (they conduct heat) and electrical conductors (they conduct electricity). insulator — An insulator is a material that does not let heat or electricity travel through them. Wood and plastic are both thermal and electrical insulators. Natural material Man made material       Changes of State  	...identify materials and describe their properties? ...identify thermal and electrical conductors and insulators? ...explain the uses of thermal and electrical conductors and insulators? ...identify materials that are soluble or insoluble in water? ...explain and investigate dissolving? ...explain the processes used to separate mixtures? ...follow instructions to separate mixtures? ...identify irreversible changes? ...set up reliable and accurate investigations? ...make and explain predictions? ...make and record accurate observations? use scientific language to explain my findings?