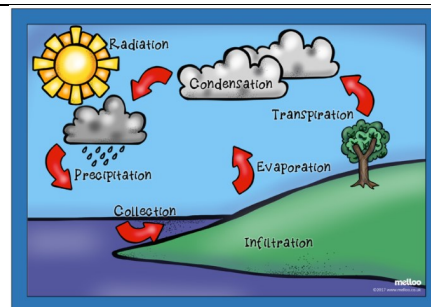
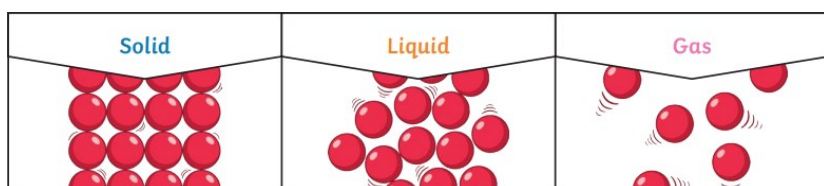


Science	Year 4
Focus: States of matter	
Age related scientific vocabulary	

gas	Gases spread out to completely fill the container or room. A gas is made up of particles that move around freely.
evaporation	When a liquid is heated and turns into a gas.
condensation	When gas is cooled and turns into a liquid.



<b>Key Knowledge</b>	
•	All substances are made of matter and can be sorted, according to whether they are solids, liquids or gases:
⇒	<b>Solids</b> have vibrating particles which are closely packed together in a regular pattern. They keep their shape unless force is applied.
⇒	<b>Liquids</b> have particles which are close together but random. They can be poured and take the shape of the container they are in.
⇒	<b>Gases</b> have particles which spread out and move in all directions. spread freely to fill any space
•	Materials change state when they are heated or cooled and different materials respond differently depending on the temperature: melting, evaporating, condensing and freezing.
⇒	<b>Evaporation:</b> when water (liquid) is heated, the particles move faster until they have enough energy to become water vapour (gas).
⇒	<b>Condensation:</b> when water vapour is cooled , particles slow down until it becomes a liquid again.
•	Water on Earth is constantly being recycled over and over again. This is called the <b>water cycle</b> . Evaporation and condensation are important processes in the water cycle.

Success Criteria	Pupil Reflection		Teacher Assessment
	Before	After	
I can explain the difference between a solid, liquid or gas	<input type="checkbox"/>	<input type="checkbox"/>	
I can compare and group materials according to their state of matter	<input type="checkbox"/>	<input type="checkbox"/>	
I can observe that some materials change state when they are heated—I can begin to select appropriate format to record observations	<input type="checkbox"/>	<input type="checkbox"/>	
I can observe that some materials change state when they are cooled—I can put forward ideas and make predictions	<input type="checkbox"/>	<input type="checkbox"/>	
I can identify the part of played by evaporation and condensation in the water cycle	<input type="checkbox"/>	<input type="checkbox"/>	