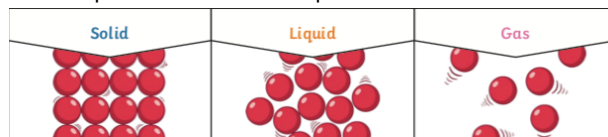


## Science Vision Map

### Year 4 – States of Matter

#### Crucial Knowledge

- Matter is something that takes up a space (an area).
- There are three states of matter. These are: gas, liquid and solid.
- Solid objects can keep their shape and do not flow. Ice is a solid
- Liquid has no set shape. It flows. It always takes the shape of its container. Water is a liquid.
- Gas has no fixed shape or volume (amount of space). Gas can move about freely. Steam is a gas.
- A particle is a tiny piece of something.
- Solid particles touch each other. Particles of liquid are close together but can move about; sometimes they touch. Gas particles have space between them.



- The water cycle is a natural recycling system. Water is used again. Water from seas, oceans and lakes heats up and turns to gas (evaporation) which then rises and becomes clouds.

#### Intent

- Recap – Rocks (Year 3)
- States of matter: solid, liquid, gas
- Compare and group materials by their properties and state of matter
- Heating and cooling: observe changes in the state of matter for some materials
- The water-cycle
- Evaporation, condensation and temperature
- Common conductors and insulators