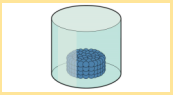
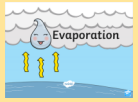
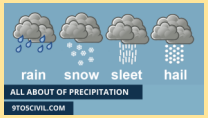
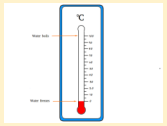
Knowledge Organiser

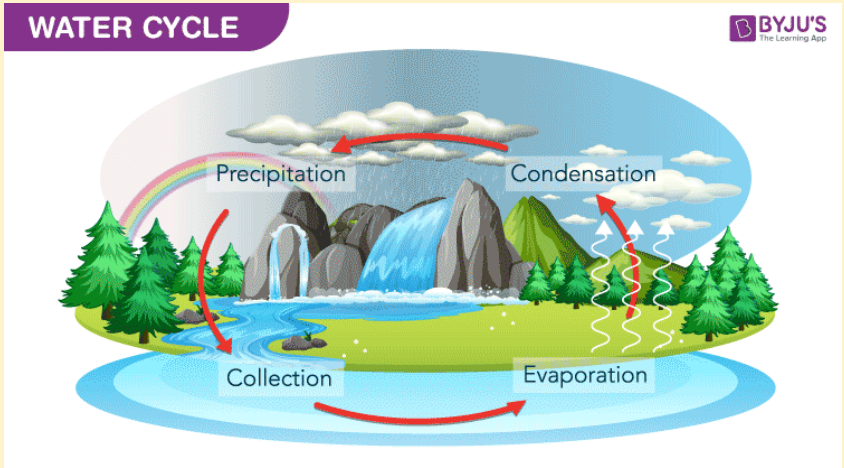
Vocabulary

pictures	Key word	definition
	**solid**	a state where the molecules are close together
	**liquid**	a state where the substance flows freely as the molecules are not as close together as in a solid
	**gas**	a state which can freely expand to fill a whole container and has no fixed shape or volume
	**temperature**	the measurement of a substance's heat
	**evaporation**	the process of a liquid changing into a gas
	**condensation**	the process of a gas changing into a liquid
	**precipitation**	the scientific term for rain, hail, snow, sleet etc.
	**Celsius**	a unit of measurement for temperature
	**water cycle**	the process that circulates water around the world
	**thermometer**	an instrument used to measure temperature

Key facts

- There are 3 states of matter: solid, liquid and gas
- A substance doesn't have to remain in this state of matter. It can change between the 3
- For instance, ice can change into its liquid form-water, which in turn can be heated to become water vapour (gas)
- A perfect example of this is the water cycle which is constantly in action around the world. 3 key parts of this process are evaporation, condensation and precipitation

Diagram of the water cycle



Further Reading

Have a look at: https://www.bbc.co.uk/ bitesize/topics/zkgg87h where you can find a lots of videos and information on changing states.

GLUE ME

What I am expected to know from the National curriculum

- group substances according to whether they are solids, liquids or gases
- to know that some materials change when heated or cooled and that temperature can be measured in degrees Celsius
- to know what evaporation and condensation is and how temperature can affect this
- QR code for end of unit assessment:

QUESTIONS TO DEEPEN YOUR LEARNING

Character	Critical Thinking	Creativity	Communication	Citizenship	Collaboration
Can you find an example of evaporation in school?	Are the processes of evaporation and condensation reversible?	Can create a model of the water cycle?	Can you explain to someone the process of the water cycle?	Can you create a poster explaining the importance of the water cycle?	Can you work with another person to investigate identifying solids, liquids and gases?