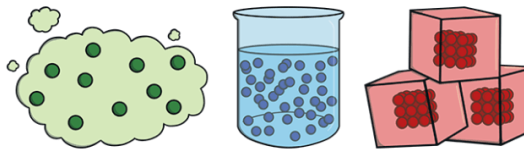


Key Vocabulary

- **Melting**- is a state change from solid to liquid.
- **Freezing**- is a state change from liquid to solid.
- **Boiling**- is a change of state from liquid to gas.
- **Evaporation**- is the same change as boiling, but it happens slowly at lower temperatures and only at the surface of the liquid.
- **Condensation**- is the change back from a gas to a liquid caused by cooling.
- **Temperature**- the degree or intensity of heat.

States of Matter



Key Facts

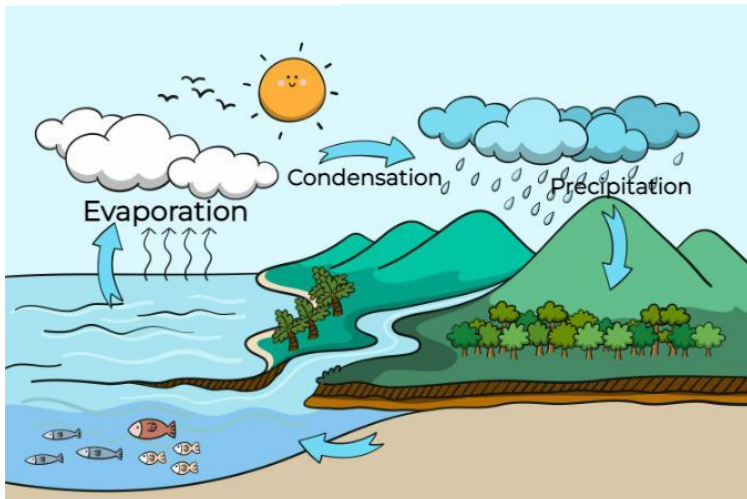
- A **solid** keeps its shape and has a fixed volume.
- A **liquid** has a fixed volume but changes in shape to fit the container.
- A **liquid** can be poured and keeps a level, horizontal surface.
- A **gas** fills all available space; it has no fixed shape or volume.
- The **freezing** point of water is 0°C.
- Water **boils** when it is heated to 100°C.

How does the level of water in a glass change when left on the windowsill?

Interleaving

Y1- weather
Y4- Geography- Rivers
Y5- materials

The water Cycle



Learning Journey

1. What are solid, liquids and gases?
2. What happens to a solid when it is heated?
3. What happens to a liquid when it is cooled?
4. What effect do condensation and evaporation have on the water cycle?
5. How does the rate of evaporation change with the temperature?
6. End of unit: How does the level of water in a glass change when left on the windowsill?