

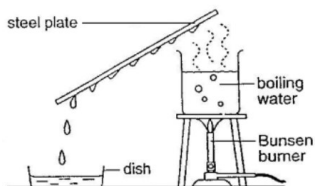
Knowledge Organiser

Y4

States of Matter and The Water Cycle

Condensation and Evaporation

Evaporation and condensation are two processes through which matter changes from one state to another. Matter can exist in three different states: solid, liquid or gas. In evaporation, matter changes from a liquid to a gas. In condensation, matter changes from a gas to a liquid.



Reversible and Irreversible Changes

An irreversible change is one that cannot be changed - back. Reversible changes create new materials.

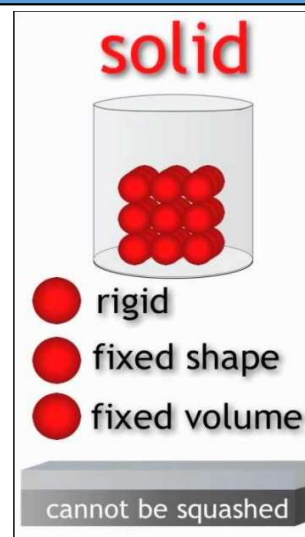
Reversible and Irreversible Changes



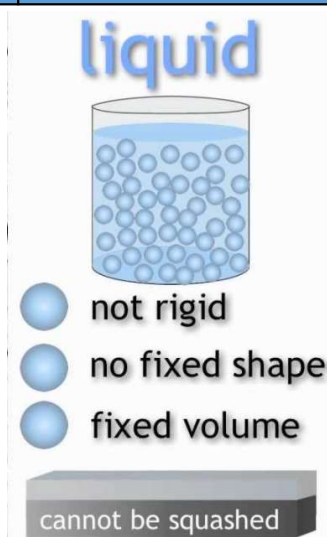
Vocabulary

solidify	to make or become a solid
ice	water in a frozen or solid state
melt / melting	to change from a solid to a liquid usually through the action of heat
freeze	to harden into or be hardened into a solid
evaporate	the process of changing from a liquid to a vapor
condense	process by which a substance changes from a gaseous state to a liquid state
degrees	a unit of measure
evaporation	the process of changing from a liquid to a gas
condensation	process by which a substance changes from a gaseous state to a liquid state
water vapour	Water that is in the form of gas
changing state	The changing of a solid into a liquid or a gas or back to a liquid and a solid.
thermometer	an instrument for measuring or showing temperature
temperature	the degree of heat or cold of an object or an environment.

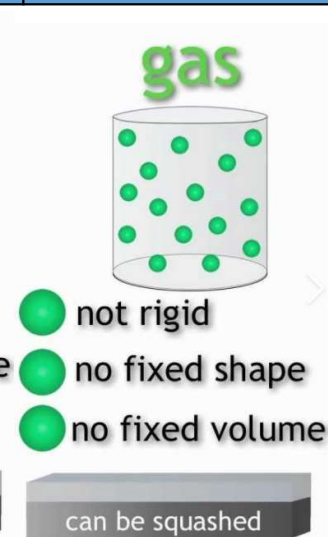
Solid



Liquid



Gas



The Water Cycle

Liquid water evaporates from the oceans, rivers and lakes and rises in to the atmosphere (water in its gaseous state) where it condenses to form clouds. Then it rushes and falls to the earth in the form of rain (liquid water) or snow (solid water) where it flows into the oceans, rivers and lakes and the process begins again. The water cycle is often seen as a simple circular cycle of evaporation, condensation, and precipitation (rain).

The Water Cycle

