

A 'mixture' is something that is physically joined together but can be separated again.

Knowledge Organiser Unit: States of Matter

Mixtures can be separated in so many ways – such as evaporation, distillation, filtering and absorption.

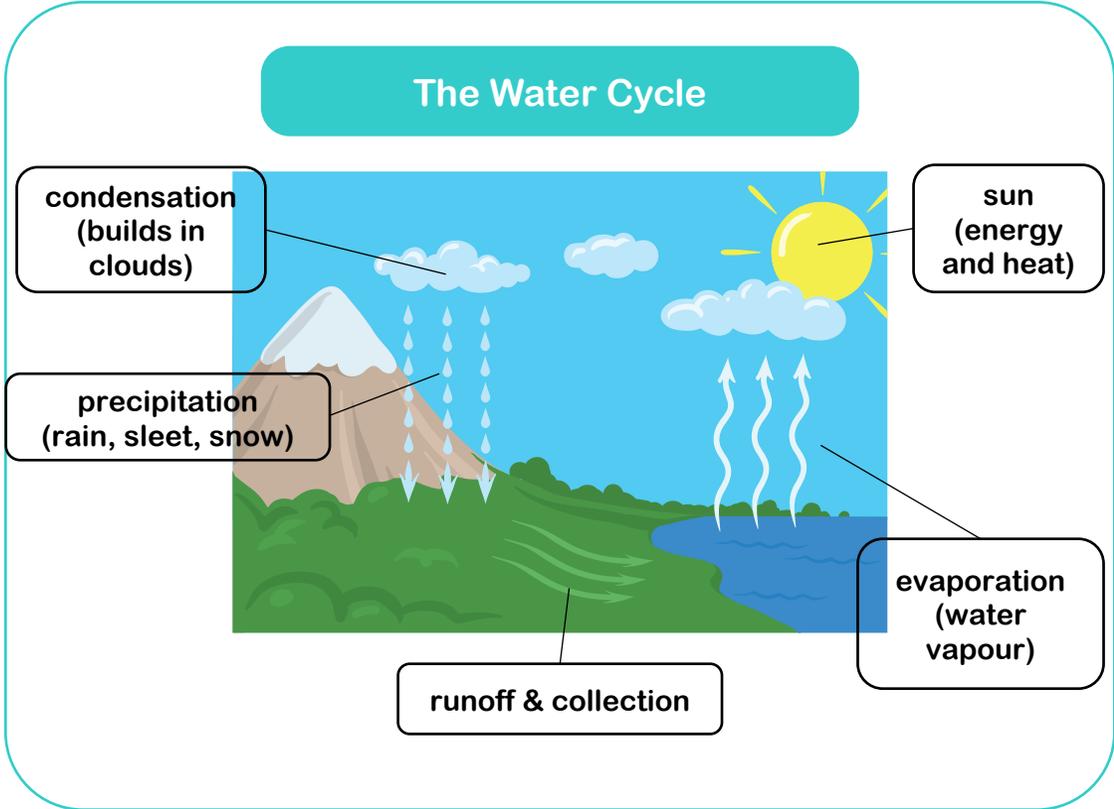


ROCKET WORDS

Learn these words and their definitions.



Key Word	Definition
water cycle	The processes that water takes between the earth's oceans, land and atmosphere.
molecule	A group of atoms bonded together that can take part in a chemical reaction.
solute	Something which is dissolved in a solution.
solvent	The ability to dissolve other substances.
evaporation	The process of liquid turning to vapour.
water vapour	The form water takes when it evaporates into a gas in the air.
condensation	The conversion of a vapour or gas to a liquid, often collects as droplets on a cold surface.
distillation	The action of purifying a liquid by heating and cooling.





UNIT LESSONS

- 1

Understand that water exists in three different states of matter
- 2

Investigate the effect of temperature on drying washing
- 3

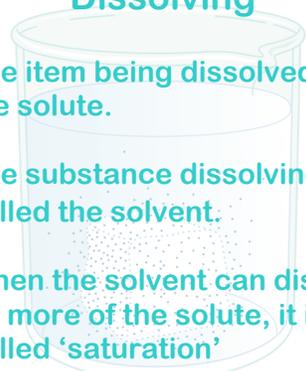
Understand dissolving and diluting
- 4

Understand evaporation and condensation
- 5

Understand the water cycle
- 6

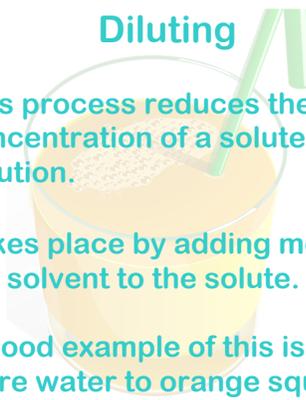
Explore separating simple mixtures of substances

Dissolving



- The item being dissolved is the solute.
- The substance dissolving it is called the solvent.
- When the solvent can dissolve no more of the solute, it is called 'saturation'

Diluting



- This process reduces the concentration of a solute in a solution.
- Takes place by adding more of the solvent to the solute.
- A good example of this is adding more water to orange squash.

States of Matter



SOLID



LIQUID



GAS

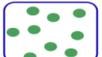




Solid state



Liquid state



Gas state