Knowledge Organiser

Vocabulary		
picture	key word	definition
	material	what something is made of
Properties of Metericity	property	a quality of a material
solid Solid On right On righ	state	solid, liquid or gas
STAT OF MATTER	change of state	a change from one state (solid, liquid or gas) to another
	dissolve	when a solid mixes with a liquid to create a new liquid
	melt	when a solid becomes a liquid
Reversible change	reversible change	a change that can be changed back to its original state
Irreversible change	irreversible change	a change that cannot be changed back to its original state
	filter	a device to separate solid parts from liquid
EVAPORATION ((()))	evaporation	the process of a liquid changing to a gas

Key Facts

- A mixture is formed when two or more materials have been mixed and are physically not chemically combined. They can be separated by physical means (sieving, filtering, evaporation, etc).
- A chemical change is a change during which new materials are formed. Many of these chemical changes are not reversible.
- When materials dissolve they form a solution. The solid material is called the solute and the liquid is called the solvent.

Reversible and irreversible changes



Further Reading

- National Geographic Kids https://www.natgeokids.com/uk/
- BBC Bitesize https://www.bbc.co.uk/ bitesize/topics/zcvv4wx

GLUE ME

What I am expected to know from the National curriculum

- to compare and group together materials based on their prosperities
- to know that some materials will dissolve and how to recover a substance from a solu-
- to know how mixtures might be separated
- to give reasons why certain materials are used to perform specific roles
- to demonstrate that dissolving, mixing and changing state are reversible changes
- to know that some changes result in a new material and this usually cannot be reversed
- QR code for end of unit assessment:



Character	Critical Thinking	Creativity	Creativity Communication	Citizenship	Collaboration
Can you find a	Are reversible	Can you create	Can you explain	Can you create	Can you work with
reversible	changes always	an investigation	to a classmate	an information	another person to
change?	reversible?	for a reversible	how changing	video on changing	ensure a fair test
		change?	state happens?	state?	is carried out?