6D REVERSIBLE AND IRREVERSIBLE CHANGES

Glossary

ash – a new substance formed when materials burn

burning – a chemical change that is irreversible. Burning involves fuel, oxygen and a flame – heat, smoke and ash are produced when things burn

change of state - the process of change from one state of matter to another this is a reversible change

chemical changes - are irreversible changes - new chemicals are produced following the change

dissolving - the process of a substance becoming part of a liquid – this is a reversible change

effervesce - to fizz - giving off a gas e.g. soluble antacid tablets – this is an irreversible change

fossil fuel – fuel that comes from the remains of dead animals and plants e.g. coal, oil, gas

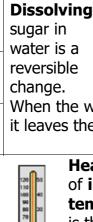
hazard – a danger to health and / or life

Here are some hazard symbols do you know what they mean?









Heating is the process of increasing the temperature. Cooling is the opposite process where **temperature** is decreased. We use a thermometer to measure temperature.



When

chocolate is

can **solidify**

melted it

again. The

change is

reversible.

When the water is evaporated it leaves the sugar behind.

Changing state from solid

to liquid to gas and

PHYSICAL CHANGE

back again is

a reversible

change.

irreversible.



When vitamin tablets effervesce (fizz) a gas is produced. This is an irreversible change.

Cooking

eggs by

frying,

boiling,

scrambling,

poaching

vinegar and egg

yolks are mixed

the resulting

mayonnaise.

precipitate is

This change is

When oil,

etc. is always an irreversible

Any **reaction** such as burning that causes new **substances** to be formed is called a **CHEMICAL**

Fuel + Oxygen + Flame

Ash + Smoke + Heat

CHANGE the changes are irreversible.



precipitate – the name of a solid produced in some chemical reactions

reaction -

renewable energy – a source of energy that does not involve the burning of fossil fuels e.g.

reversible change – a change that can be easily reversed e.g.

substance - a material

Coal, gas and oil are all fossil

fuels. Thev are also

examples of non-renewable energy sources.

heating – the process of increasing the temperature

irreversible change - a change that cannot easily be reversed e.g. burning

physical changes - are reversible changes – no new substances are produced following the change

To react - verb

wind power

freezing water to make ice





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