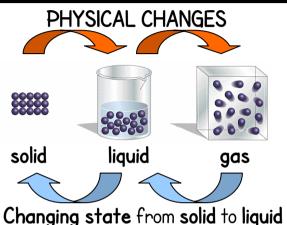
Reversible and Irreversible Changes Fact Sheet



Changing state from solid to liquid to gas and back again is a reversible change.

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



A wind turbine helps to generate electricity from renewable sources.



When chocolate is **melted** it can **solidify** again. The change is reversible.

Cooking eggs, by frying, boiling, scrambling, poaching etc., is always an irreversible change.



When oil, vinegar and egg yolks are mixed together. they make a **precipitate** called mayonnaise. This change is irreversible.

Dissolving sugar in water is a reversible change. When the water is **evaporated** it leaves the sugar behind.



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

Any **reaction**, such as burning, that causes new **substances** to be formed is called a CHEMICAL CHANGE. These changes are irreversible.













ash







heat



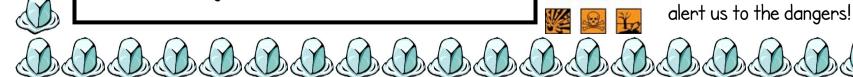




Coal, gas and oil are all fossil fuels. They non-renewable energy sources.



Reversible and Irreversible Changes Glossary **heating** - the process of increasing the temperature ash - a new substance formed when materials burn irreversible change - a change that cannot easily be **burning** - a chemical change that is irreversible. Burning involves fuel, oxygen and a flame - heat, smoke reversed e.g. burning and ash are produced when things burn physical changes - are reversible changes - no new substances are produced following the change **change of state** - the process of change from one state of matter to another - this is a reversible change precipitate - the name of a solid produced in some chemical reactions **chemical changes** - are irreversible changes - new chemicals are produced following the change reaction - To react - verb dissolving - the process of a substance becoming part renewable energy - a source of energy that does not of a liquid - this is a reversible change involve the burning of fossil fuels e.g. wind power effervesce - to fizz - giving off a gas e.g. soluble reversible change - a change that can be easily antacid tablets - this is an irreversible change reversed e.g. freezing water to make ice substance - a material fossil fuel - fuel that comes from the remains of dead animals and plants e.g. coal, oil, gas Hazard symbols are placed on the





containers of dangerous substances to

hazard - a danger to health and / or life