Owl class: Material World 2 Knowledge Organiser			
Subject vocabulary		Some changes that cannot be reversed.	Key facts to know by the end of this unit
Irreversible change	A change that cannot be undone. In an irreversible change, new materials are formed.	• When wood burns you cannot get it back again. It becomes smoke and ash.	When vinegar and bicarbonate of soda are mixed, a gas is produced.
chemical change	A change that happens when substances react with one another to create a different substance		When a candle is lit, although the wax melts first, it then releases a gas which burns, making this an irreversible change.
Physical change	An irreversible change where the appearance of the substance changes in some way	• When iron rusts this change is irreversible.	Adding water to casting powder (plaster of Paris) causes a chemical change. Heat is released and the liquid hardens to a solid
gas	A gas does not keep its shape. It spreads out to fill whatever space or container it is in and can be squashed. Gases are often invisible	Carbon Dioxide	Cooking causes an irreversible change caused by heat. Often liquids can become solids, such as flour, salt and water being baked to create salt dough or cooking an egg.
solid	A solid keeps its shape and does not spread out and always takes up the same amount of space		gas is produced
liquid	Liquids change their shape according to the container they are in		 will not return it to a liquid) A smell is produced
burning	An irreversible change caused by extreme heat / fire.		