

Metals and non-metals		
1	Periodic table	list of all the known elements in order of their atomic number
2	Metal	materials that are shiny and hard, they conduct electricity and heat. Found on the left of the periodic table
3	Non-metal	dull, brittle materials that do not conduct heat or electricity well. Found on the right of the periodic table
4	Physical property	description of the appearance of a substance or how it acts without involving chemical reactions
5	Chemical property	how a substance behaves during chemical reactions
6	Ductile	able to stretch or bend without breaking
7	Malleable	able to be hammered and shaped
Reactivity and displacement		
8	Reaction	atoms are rearranged, and joined to make new substances
9	Reactivity	measure of how easily a substance will take part in reactions
10	Reactivity series	list of elements in order of their reactivity
11	Displacement	taking the place of another substance
12	Word equation	names of the reactants and products are used to model a reaction e.g. magnesium + oxygen → magnesium oxide
Metal & non-metal oxides		
13	Oxide	compound containing oxygen
14	Acid	substance with a pH less than 7
15	Base	substances that neutralise acids. pH higher than 7
16	Alkali	a base that will dissolve in water
17	Universal indicator	mixture of dyes that changes colour depending upon pH
endothermic and exothermic reactions		
18	Energy	ability to do work (measured in J)
19	Endothermic	reaction in which energy is taken in from the surroundings
20	Exothermic	reaction in which energy is given out to the surroundings
21	Increase	get bigger
22	Decrease	get smaller
23	Temperature	how warm or cold a substance is

Catalysts		
24	Catalyst	substance that speeds up a chemical reaction
25	Enzyme	proteins that speed up chemical reactions in living things
26	Conservation of mass	the number of atoms after a reaction must be the same as before the reaction

Measuring changes		
27	Quantitative	data involving numbers and measurements
28	Qualitative	data involving observations
29	Thermometer	apparatus used to measure changes in temperature
30	Balance	apparatus used to measure the mass of a substance
31	Mass	the amount of matter in an object, measured in g and kg
32	Gas syringe	apparatus used to measure the volume of gases
33	Water displacement	method used to collect gases, where the gas replaces water

Hydrocarbons & combustion		
34	Reactants	substances that go into a chemical reaction
35	Products	substances formed in a chemical reaction
36	Hydrocarbon	substance made from hydrogen and carbon only
37	Combustion	reaction in which a substance burns with oxygen from the air
38	Carbon dioxide	compound made from carbon and oxygen
39	Limewater	solution that turns white when carbon dioxide passes through it
40	Thermal decomposition	reaction in which a substance breaks down when heated

Oxidation & reduction		
41	Oxidation	gain of oxygen
42	Reduction	loss of oxygen
43	Redox reaction	reaction where one substance is oxidised and another is reduced
44	Rusting	oxidation of iron (formation of iron oxide)