



Chemistry Y8 Grade Descriptors

Topic	Developing	Proficient	Confident
Acids & Alkalis (pH, indicator and neutralisation)	<ul style="list-style-type: none">Identifies common acids and alkalis in the lab.Recognises indicator colour changes.Describes pH in simple terms (acid/neutral/alkali).	<ul style="list-style-type: none">Explains the pH scale numerically.Predicts the name of saltsUnderstand the difference between a soluble and insoluble base	<ul style="list-style-type: none">Write word equations for acids reacting with metal, base and carbonatePredicts unknown reaction outcomes confidently.
Periodic Table (Groups 1, 7, 0)	<ul style="list-style-type: none">Identifies metals and non-metals.Recalls positions of Groups 1, 7 and 0.State Group 0 are unreactive	<ul style="list-style-type: none">State differences in Group 1 metals reacting with waterDescribes displacement reactions in halogens.Explain difference in properties between metals and non-metals	<ul style="list-style-type: none">Explain observations when Group 1 react with water.Write word equations for displacement reactions
Formulae & Equations	<ul style="list-style-type: none">Define conservation of massState the number of atoms of each element in a compound	<ul style="list-style-type: none">Predict the names of compounds from wordsNames compounds from formulae.Constructs formulae from valency rules accurately.	<ul style="list-style-type: none">Balances equationsFormulate balanced symbol equations
Reactions of Metals	<ul style="list-style-type: none">Name products formed when metals react with oxygen and water.	<ul style="list-style-type: none">Write word equations for all reactions of metals	<ul style="list-style-type: none">Predicts products and created balanced symbol equations

	<ul style="list-style-type: none"> Identifies the conditions for rusting. State what an alloy is 	<ul style="list-style-type: none"> Describes rust prevention methods with reasons. Explains why alloys have different properties. 	<ul style="list-style-type: none"> Evaluates alloy compositions for particular purposes.
Chemical Reactions	<ul style="list-style-type: none"> Defines an exothermic and endothermic reactions. Recognises simple displacement reactions. Recalls order of metals in the reactivity series. 	<ul style="list-style-type: none"> Identify exothermic and endothermic reactions from temperature changes Predicts displacement outcomes using the series. Describes extraction of metals from ores in simple terms. 	<ul style="list-style-type: none"> Interprets energy profile diagrams. Explains extraction choices using reactivity reasoning. Write balanced symbol equations for displacement reactions.
Earth (Resources, Combustion, Greenhouse Effect)	<ul style="list-style-type: none"> Describes fossil fuels and simple combustion. Identifies greenhouse gases. Describes basic environmental impacts. 	<ul style="list-style-type: none"> Explains complete vs incomplete combustion. Describes renewable vs non-renewable resources. Explains the mechanism of the greenhouse effect. 	<ul style="list-style-type: none"> Evaluates sustainability of resource use. Interprets data on emissions and climate impacts. Explains combustion chemistry using balanced ideas.