

# KS3 Statements - Chemistry

TOPIC	Chemistry		
	Year 7	Year 8	Year 9
1	<b>Particles and Mixtures</b> States of matter, changes of state, diffusion, gas pressure, mixtures, solubility and different techniques used to separate mixtures.	<b>Elements and the Periodic Table</b> Elements, compounds, molecules, giant structures, electrolysis, metals and non-metals, trends in the periodic table, and Groups 1, 7 and 0.	<b>Atomic Structure</b> Atoms, chemical equations, separating mixtures, history of the atom, structure of the atom, ions, isotopes and electron arrangement.
2	<b>Reactions</b> Metals and non-metals, chemical reactions, reactions with acids, oxidation, displacement, acids and alkalis, the pH scale and neutralisation.	<b>Chemical Energy and Reactions</b> Chemical reactions, physical changes, chemical formula, chemical equations, exothermic and endothermic reactions, combustion and conservation of mass.	<b>The Periodic Table</b> Development of the periodic table, arrangement of elements in the periodic table, Groups 1, 7 and 0, the transition metals, displacement reactions and explaining the trends in reactivity down groups.
3		<b>Earth Structure and Universe</b> Sedimentary, metamorphic and igneous rocks, weathering, the rock cycle, days, years, seasons, the Moon, the solar system, exploring Mars and the universe.	<b>The Earth's Atmosphere</b> History of our atmosphere, how our atmosphere changed over time, the greenhouse effect, climate change and atmospheric pollutants.
4			<b>The Earth's Resources</b> Finite and renewable resources, sustainability, obtaining potable water, treating waste water, extracting metals from ores, life cycle assessments and recycling.