

YEAR 9

AUTUMN 1		CAREERS LINKS
Atoms and Elements Elements, compounds, periodic table, atomic structure.	Prior Learning The periodic table of elements is another Y7 topic, introducing the idea of classifying elements into groups with similar characteristics. Particle model in Y7 has provided background to particle theory which pupils will build on.	Particle physicist, economist, environmental chemist/scientist, journalism, scientific communicator, geologist, materials scientist, matallugist, angingeriag
AUTUMN 2		research chemist, mechanical
Neutralisation Acid-base reactions, pH scale, neutralisation, making and naming salts.	Prior Learning Acids and bases topic in Y7 introduced ideas about reactions between them leading to production of salts and water. Simple chemical reactions in Y8 introduces idea of different chemical reactions.	engineers, safety analyst, forensic scientist.
SPRING 1		
Rates Measuring rates of reaction, factors affecting rates of reaction, reversible reactions.	Prior Learning Simple chemical reactions in Y8 introduces idea of different chemical reactions, including exo/endothermic reactions.	Motivation, resilience and teamwork (performance virtues).
SPRING 2		Confidence and determination
Atmosphere Evolution of the atmosphere, composition of the atmosphere, greenhouse effect, global warming, atmospheric pollution.	Prior Learning Y8 environmental chemistry provides background of modern atmospheric composition, plus evolution of atmosphere and effects of various atmospheric pollutants.	Listening, critical thinking and problem solving (intellectual virtues). Consideration and construction of moral and
SUMMER 1		ethical arguments in science
Getting Metals Reactivity series, extracting metals, redox reactions, electrolysis.	Prior Learning Y8 Earth's resources introduces reactivity series and makes links to this in simple terms about extracting metals from the Earth's crust.	KEY ASSESSMENT
SUMMER 2		Summative and synoptic
Energy In Reactions Exo/endothermic reactions, energy profile diagrams, bond energies.	Prior Learning Building on prior chemistry topics from this year and incorporating many practical skills from Y7- 9.	testing in October, February and May.