

Y9 CHEMISTRY

SCIENCE AT YARDLEYS

INTENT: Science helps students gain an understanding of the world around them, from the micro-level of particles and atoms to the macro-level of our expanding universe. It encourages students to question and enquire in order to learn more. We want our students to acquire the scientific knowledge and skills to meet their academic, practical and "real life" challenges of the future.

Y9 SCIENCE

Year 9 will build on this knowledge and focus on the detailed chemistry knowledge building on the basic knowledge. This includes formulas and word/symbol/balancing equations, which is a build-up on prior learning.

YEAR 9						
	Matter and Separating Mixtures	Overarching Concepts (Part 1)	Overarching Concepts (Part 2) Groups in the Periodic Table	Overarching Concepts (Part 3)	Chemical Changes (Part 1)	Chemical Changes (Part 2)
SUBSTANTIVE KNOWLEDGE	Matter and Mixtures Separating Mixture Techniques	Atomic Structure Development of the Periodic Table Bonding and Properties (Ionic Substances)	Bonding and Properties (Covalent and Metallic Substances) Groups in the Periodic Table	Calculations involving mass Calculations involving moles	Acids, Bases and IndicatorsMaking Salts	Electrolysis
DISCIPLINARY KNOWLEDGE	Interpreting data Identify possible errors in investigations Applying mathematical concepts Suggesting improvements to scientific methods	Using mathematical concepts Applying scientific knowledge to experimental evidence	Applying scientific knowledge to experimental evidence Make observations	Applying mathematical concepts	Making observations Applying mathematical concepts Applying scientific knowledge to experimental evidence	Applying scientific knowledge to experimental evidence