

Barnsley Academy – (Year) (Subject) Curriculum Overview 2023-24 (KS4 CHEMISTRY Year 10)

Autumn Term			Spring Term			Summer Term			
	Class Focus	Homework		Class Focus	Homework		Class Focus	Homework	
Week 1	C1 Atomic Structure and Periodic Table <ul style="list-style-type: none"> • Elements and Compounds • Mixtures • Distillation 	Elements, compounds and mixtures	Week 1	<ul style="list-style-type: none"> • Titrations • Limiting reactants 		Week 1			
Week 2	<ul style="list-style-type: none"> • Chromatography (Practical) • Atomic structure 	Atomic structure	Week 2	<ul style="list-style-type: none"> • Gases • Revision 		Week 2			
Week 3	<ul style="list-style-type: none"> • Closing the gap • Development of the atom • Isotopes 	Development of the atom/isotopes	Week 3	<ul style="list-style-type: none"> • EJOA C3 Quantitative Chemistry • Closing the gap 		Week 3			
Week 4	<ul style="list-style-type: none"> • Electronic structure • Periodic table development • Group 1 	Development of the periodic table	Week 4			Week 4			
Week 5	<ul style="list-style-type: none"> • Group 7 • Closing the gap • Displacement reactions 	Group 7 and displacement reactions	Week 5			Week 5			
Week 6	<ul style="list-style-type: none"> • Transition metals • Revision 	Transition metals	Week 6			Week 6			
Week 7	<ul style="list-style-type: none"> • EOUA C1 Atomic structure and Periodic Table • Closing the gap 	C1 revision quiz (20 Q's)	Week 7			Week 7			
Week 8	C2 Bonding <ul style="list-style-type: none"> • Ionic bonding • Writing formula • Properties of Ionic compounds 	Ions and properties	Week 8			Week 8			
Week 9	<ul style="list-style-type: none"> • Covalent bonding • Covalent substances • Diamond and graphite 	Covalent bonding and properties of structures	Week 9			Week 9			
Week 10	<ul style="list-style-type: none"> • Closing the gap • Metallic bonding 	Metallic bonding/alloys	Week 10			Week 10			
Week 11	<ul style="list-style-type: none"> • Nanoparticles • Revision 	Nanoparticles					Week 11		
Week 12	<ul style="list-style-type: none"> • EOUA C2 Bonding • Closing the gap 	C2 Revision Quiz (20 Q's)					Week 12		
Week 13	C3 Quantitative Chemistry <ul style="list-style-type: none"> • Ar and Mr • Moles and Avogadro's constant • Balancing equations 	Mr and moles					Week 13		
Week 14	<ul style="list-style-type: none"> • Reacting masses • GCSE reacting masses • Atom economy 	Reacting masses/atom economy					Week 14		

Week 15	<ul style="list-style-type: none"> Closing the gap Solutions Titrations (RP) 	Titration						
Assessment			Assessment			Assessment		