

Barnsley Academy – Y10- C2- Week 1 Bonding Curriculum
Scheme of Work – 2023-24

Term – Week ...				
	1	2	3	4
Lesson Focus	Ionic Bonding	Writing Ionic Formula	Properties of ionic compounds	Covalent bonding
Prerequisite Knowledge	<ul style="list-style-type: none"> - Why atoms react - Charges of Protons and electrons - Electronic structure 	<ul style="list-style-type: none"> - Charges of ions 	<ul style="list-style-type: none"> - Ionic bonding (C2- Lesson 1) 	<ul style="list-style-type: none"> - Metals and Non-metals - Link between outer shell electrons and group number
Core Knowledge	<ul style="list-style-type: none"> ▪ Identify the type of bonding in compounds ▪ Represent ionic bonding using diagrams ▪ Describe the formation of an ionic bond 	<ul style="list-style-type: none"> • Identify charges of ions from the periodic table • Write ionic formula 	<ul style="list-style-type: none"> • Describe some of the properties of ionic compounds • Explain some of the properties of ionic compounds using knowledge of the structure 	<ul style="list-style-type: none"> • Define a covalent bond • Draw and describe covalent bonds using structural, ball and stick and displayed formula • Represent polymers using diagrams
Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge)	<ul style="list-style-type: none"> - Identifying type of bonding (Slide 4) - Steps for an ion forming 	<ul style="list-style-type: none"> - Steps for working out the charge of ions - -Steps for writing ionic compound formula 		<ul style="list-style-type: none"> - Steps for naming and drawing polymers
Independent Practice	IP1- Identifying types of bonding IP2- Formation of ions exam q IP3- Ionic bonding exam q	IP1- Writing the charges of ions IP2- Ionic compound formula worksheet IP3- Ionic compound formula exam q	IP1- Describe the structure and bonding of ionic compounds IP2- Explain why ionic compounds have high melting points IP3- Explain why ionic compounds conduct electricity	IP1- Drawing covalent bonding IP2- Polymers exam q
Assessment (Informal/Formal)	<ul style="list-style-type: none"> - Targeted questioning - Whiteboard checks - Exam q - Circulation - 	<ul style="list-style-type: none"> - Targeted questioning - Whiteboard checks - Exam q - Circulation 	<ul style="list-style-type: none"> - Targeted questioning - Whiteboard checks - Exam q - Circulation 	<ul style="list-style-type: none"> - Targeted questioning - Whiteboard checks - Exam q - Circulation
Resources				

Specific SEN(D)/EAL support		LAP worksheet		
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