

Subject	Year	Term
Science	10	1
Topic		
C1 Atomic Structure and the Periodic Table		
Content (Intent)		
Prior Learning (Topic) 7C2: Elements and compounds, 8C1: Properties of elements, 8C2: Chemical reactions and earth.		
<ul style="list-style-type: none"> • What are atoms, elements and compounds? • What happens when elements react together to produce compounds? • The structure of an atom. • How the model of an atom has changed over time. • Electron arrangement in atoms • The layout of the periodic table • The development of the periodic table over time • The properties of metals compared to non-metals. • The properties and reactions of Groups 1,7 and 0 elements 		
Future Learning (Topic) This topic underpins all chemistry at all levels. Particularly, C2 Structure and Bonding (y10), C3 Quantitative Chemistry (y11)		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<u>Demos</u> Iron and sulfur reaction, reactions of alkali metals <u>Practical work</u> Investigating metal properties, reactivity of group 1 and group 7 elements. <u>Written</u> Class notes	- 2 x standard homework (Written feedback. Response expected.) -1 x end of topic test (Level given. Verbal feedback to class and individuals.)	
How can parents help at home?		
Look at the topic specific resources on the VLE Use appropriate youtube channels: cognito, primrosekitten, khan academy, freesciencelessons. Take an interest! Ask your children what they have learnt and be curious about their learning.		
Helpful further reading/discussion		
Reading <ul style="list-style-type: none"> • Atoms and Ashes by Serhii Plokyh 	Vocabulary Lists Atom, element, molecule, compound, equation, plum pudding model, electron	Careers Links Environmental scientist Chemical engineer Medicine Veterinary Science

<ul style="list-style-type: none">• Atoms Under the Floorboards by Chris Woodford• The Periodic Table of Marvel by Melanie Scott• The Disappearing Spoon... and other true tales from the Periodic Table by Sam Kean	arrangement,. Proton, neutron, alkali metal, halogen, noble gas	Chemist Biochemist
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