

Science Year 10

Learning Intentions Autumn Term 2 2024- 2025

	LESSON 1	LESSON 2	LESSON 3	Lesson 4
WEEK 9 wc 4 th November	How do non metals bond?	What are the properties of covalent structures?	How many ways can carbon bond?	Covalent bonding practise.
WEEK 10 wc 11 th November	How do metals bond?	What are the properties of metals and alloys?	How do the different types of bonding compare?	What are acids and alkalis/bases?
WEEK 11 wc 18 th November	What makes an acid? (H only) How do acids and bases react? (F)	How do acids and bases react?	Core practical: Preparing Copper Sulfate (Substantiative Knowledge)	Core practical: Preparing Copper Sulfate (Disciplinary Knowledge)
WEEK 12 wc 25 th November	How do acids and metal hydroxides react?	Core Practical: Investigating Neutralisation (Substantiative Knowledge)	Core Practical: Investigating Neutralisation (Disciplinary Knowledge)	What happens to the particles during neutralisation?
WEEK 13 wc 2 nd December	How do acids and metals and carbonates react?	Which salts are soluble?	What is DNA?	How do we extract DNA? (Substantiative Knowledge)
WEEK 14 wc 9 th December	How do we extract DNA? (Disciplinary Knowledge)	What is Mitosis? (REVIEW)	What is Meiosis?	Modelling Meiosis. (Presentation)
WEEK 15 wc 16 th December	How do alleles affect genotype and phenotype?	How are genes inherited?	What happens when genes mutate?	What are the types of variation and how do we identify them?