

What your child will learn each half term

This overview shows the key topics, skills, and knowledge your child will be learning in **Triple Chemistry** in **Y10**. It helps families understand what's being taught, how it builds on previous learning, and how you can support your child at home.

- **How science works skills**

- Use and rearrange equations confidently in Chemistry and Physics topics.
- Link graphs and data to scientific models, drawing conclusions from evidence.
- Develop skills in planning, carrying out, and analysing required practicals.
- Apply practical skills: selecting equipment, measuring accurately, and identifying variables to control in an investigation.
- Communicate scientific ideas clearly in extended written answers, using correct terminology.

- **What we are learning:** The topic or focus for the half term.
- **Key knowledge & skills:** What students should understand and be able to do.
- **How we assess learning:** knowledge checks, practical tasks, written responses and formal assessments.
- **Key words to know:** Vocabulary students will learn and use.

Half term	What we are learning	Key knowledge and skills	How we will assess learning in this unit	Homework	Key vocabulary for this unit
HT 1 and 2	Atomic structure & periodic table (C1a, C1b) Bonding, structure & properties (C2)	• Atomic structure & periodic table (C1a, C1b): structure of the atom, isotopes, ions, development of the periodic table, properties and trends in Groups 1, 7, and 0. • Bonding, structure & properties (C2): ionic, covalent, and metallic bonding, properties of simple molecules, polymers, and giant structures (diamond, graphite, graphene).	Continuous formative assessment in lessons. End of topic tests. Question level analysis and feedback. Required practical assessment booklets.	Homework is set on a Monday and is due the following Monday. Homework will be set online using a website 'Educake' which pupils will receive their login details for.	Atom, proton, neutron, electron, isotope, ion, periodic table, group, period, alkali metal, halogen.