**Walton High School Hub Curriculum** 

**Year 11 - Science Half term 4 (February 2025 – April 2025)**

How it works:

1. In the table, find the correct week by looking at the date in the first column.
2. Find today’s work – there are three links per double lesson so you won’t run out of work!
3. Choose a lesson – hold ctrl and click on the chosen link.

**If the link does not work, you do not recognise the work or the work is too difficult, try another lesson.**

1. Some lessons have links to PowerPoints and other resources beneath the video and/or Starter Quiz.
2. Complete any starter quizzes.
	1. Write your answer down
	2. Mark your answers and write down any corrections, using the videos.
3. Watch the videos and take notes.
4. Pause if/when instructed to do so to answer questions or respond.
5. When the lesson is complete, go onto the next one.

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| Week commencing | Day | Subject/Topic | Lesson 1 | Lesson 2 |
| 24/02/25 | Monday | **Biology** – Paper 2 retrieval practice | [Competition & Interdependence Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.02)  | [Abiotic and Biotic Factors Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.03) |
| Tuesday | [Adaptations Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.21)  | [Food chains & Predator Prey Cycles Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.04)  |
| Wednesday | [Investigating Abundance & Distribution Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.07)  | [Carbon Cycle & Water Cycle Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.09)  |
| Thursday  | [Decay Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.11)  | [How Humans Reduce Biodiveristy Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.13)  |
| Friday | [Maintaining Biodiversity Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.14) | [Global Warming Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_10.17)  |
| 03/03/25 | Monday  | **Chemistry** – Paper 2 Retrieval Practice | [Hydrocarbons Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_7.04)  | [Alkanes - Properties & Combustion Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_7.05)  |
| Tuesday  | [Fractional Distillation Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_7.06)  | [Cracking & Alkenes Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_7.07)  |
| Wednesday  | [Reaction of Alkenes Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_7.09)  | [Addition Polymers Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_7.1)  |
| Thursday  | [Purity & Formulations Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_8.01)  | [Paper Chromatography Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_8.02)  |
| Friday | [Tests for Gases Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_8.03)  | [The Evolution of the Atmosphere Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_9.01)  |
| 10/03/25 | Monday | **Physics** – Motion Equations, Resultant Force, Momentum | [Momentum (Part 1) Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.11) | [Momentum (Part 2) Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.12) |
| Tuesday | [Contact and Non-Contact Forces Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.01)  | [Scalar and Vector Quantities Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.02)  |
| Wednesday | [Free Body Diagrams & Resultant Forces Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.05)  | [Resolving Vectors & Scale Drawings Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.07)  |
| Thursday | [Speed/Velocity & Distance/Displacement Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.01)  | [Acceleration Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.02)  |
| Friday | [Newtons 1st & 2nd Laws Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.07)  | [Newtons 3rd Law Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.08)  |
| 17/03/25 | Monday | **Biology** – Paper 2 Retrieval Practice | [Homeostasis Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_7.01)  | [The Nervous System, Synapses & Reflexes Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_7.05)  |
| Tuesday | [Brain Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_4.12)  | [Reproductive Hormones - Puberty & Menstrual Cycle Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_7.08)  |
| Wednesday | [Contraception Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_7.09)  | [Fertility Treatment Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_7.1)  |
| Thursday | [Adrenaline & Thyroxine Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_7.11)  | [Plant Hormones - Auxins Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_6.15)  |
| Friday | [Plant Hormones - Commercial Uses Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_6.16)  | [Endocrine System Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_7.07)  |
| 24/03/25 | Monday  | **Chemistry** – Paper 2 Retrieval Practice | [Greenhouse Gases & Climate Change Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_9.02)  | [Carbon Footprints Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_9.03)  |
| Tuesday | [Air Pollution Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_9.04)  | [Ceramics, Composites & Polymers Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_10.01)  |
| Wednesday | [Corrosion Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_10.03)  | [Sustainable Development - Reuse & Recycling Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_10.05)  |
| Thursday | [Life Cycle Assessments Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_10.09)  | [Potable Water Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_10.1)  |
| Friday | [Waste Water Treatment Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_10.11)  | [Rates of Reaction Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.01)  |
| 31/03/25 | Monday | **Physics** – Paper 2 Retrieval Practice | [Longitudinal & Transverse Waves Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.01)  | [Reflection Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.03)  |
| Tuesday | [Refraction Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.04)  | [Electromagnetic Waves Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.05)  |
| Wednesday | [Radiowaves Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.06)  | [Microwaves & Infrared Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.07)  |
| Thursday | [UV Light Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.08)  | [X-Rays & Gamma Rays Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.09)  |
| Friday | [How Lenses Work Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.11)  | [How to Draw Ray Diagrams Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.12)  |
| 07/04/25 | Monday | **Retrieval Practice** | [DNA 1 - Chromosomes, Genome & Migration Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.01)  | [Rates of Reaction Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.01)  |
| Tuesday | [Distance-Time Graphs Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.04)  | [DNA 2 - Key Terms Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.02)  |
| Wednesday | [Velocity-Time Graphs Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.05)  | [Factors Affecting Rates of Reaction & Collision Theory Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.02)  |
| Thursday | [DNA 3 - Structure & How it Codes Lesson | Triple | Cognito (cognitoedu.org)](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.03) | [Measuring Rates of Reaction From a Graph Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.04)  |
| Friday | [Terminal Velocity Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_3.06)  | [Magnets Lesson | GCSE](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_6.01)  |