**Walton High School Hub Curriculum** 

**Year 11- Science Half term 3 (January 2025 – February 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 |
| 06/01/25 | Monday | **Biology** – Evolution, Fossils and Extinction | [Mendel Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.17)  | [Variation & Evolution Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.06)  |
| Tuesday | [Darwin, Wallace & Lamarck Lesson](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.07)  | [Fossils & Extinction Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.19)  |
| Wednesday | [Speciation Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.2)  | [The fossil record provides evidence for evolution |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/fossil-evidence-selective-breeding-and-explaining-evolution/lessons/the-fossil-record-provides-evidence-for-evolution/overview)  |
| Thursday  | [Common ancestors and transitional species |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/fossil-evidence-selective-breeding-and-explaining-evolution/lessons/common-ancestors-and-transitional-species/overview)  | [Selective breeding and human food security |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/fossil-evidence-selective-breeding-and-explaining-evolution/lessons/selective-breeding-and-human-food-security/overview)  |
| Friday | [Darwin, Wallace and the theory of evolution by natural selection |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/fossil-evidence-selective-breeding-and-explaining-evolution/lessons/darwin-wallace-and-the-theory-of-evolution-by-natural-selection/overview)  | [The evolution of new species |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/fossil-evidence-selective-breeding-and-explaining-evolution/lessons/the-evolution-of-new-species/overview)  |
| 13/01/25 | Monday  | **Chemistry** – Reversible Reactions and Le Chatelier’s Principle | [Reversible Reactions & Dynamic Equilibrium Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.06)  | [Le Chatelier's Principle Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.07)  |
| Tuesday  | [Rates of Reaction Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.01)  | [Factors Affecting Rates of Reaction & Collision Theory Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.02) |
| Wednesday  | [Measuring Rates of Reaction From a Graph Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_6.04)  | [The Haber Process Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_10.12)  |
| Thursday  | [Rates of Reaction Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_11.05)  | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=250&lesson=4493) |
| Friday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=250&lesson=4492) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=250&lesson=4500) |
| 20/01/25 | Monday | **Physics** – SHC, SLHC, Particle models, Pressure | [Specific Heat Capacity Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_10.01)  | [Particle Model & States of Matter Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_7.01)  |
| Tuesday | [Density Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_7.02)  | [Specific Latent Heat Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_7.04)  |
| Wednesday | [Factors Affect Gas Pressure Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_7.06) | [Pressure & Volume (PV = Constant) Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_7.07) |
| Thursday | [Pressure Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.12)  | [Liquid Pressure & Upthrust Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.13)  |
| Friday | [Atmospheric Pressure Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.14)  | [Thermal Insulators Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_10.02)  |
| 27/01/25 | Monday | **Retrieval Practice** | [Mitosis Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.09)  | [Relative Formula Mass Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.01)  |
| Tuesday | [National Grid Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.09)  | [Binary Fission Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.14)  |
| Wednesday | [Moles & Mass Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.03)  | [Energy & Power Formulas Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.08)  |
| Thursday | [Culturing Microorganisms (Practical) Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.15)  | [Calculating Mass in Reactions Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.11)  |
| Friday | [AC & DC Current Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.1)  | [Stem Cells Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.11)  |
| 03/02/25 | Monday  | [Conservation of Mass Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.04)  | [Plugs & Wires Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.11)  |
| Tuesday | [Specialised Cells & Differentiation Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.1)  | [Limiting Reactants Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.06)  |
| Wednesday | [Radioactive Decay & Half Life Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_8.05)  | [Stem Cells in Medicine Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.12)  |
| Thursday | [Concentration Calculations (grams/dm^3) Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.08)  |  [Fuses & Earthing Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.12)  |
| Friday | [Circulatory System 1 - Heart Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_4.01)  | [Gas Calculations Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.07)  |
| 10/02/25 | Monday | [Static Electricity Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.13)  | [Circulatory System 2 - Blood Vessels Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_4.02)  |
| Tuesday | [Atom Economy Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.09)  | [Electric Fields Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.15)  |
| Wednesday | [Circulatory System 3 - Blood Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_4.03)  | [Percentage Yield Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.1)  |
| Thursday | [Alpha, Beta and Gamma Radiation Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_8.03) | [Cardiovascular Disease Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_5.21)  |
| Friday | [Bond Energies Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_5.02)  | [Nuclear Decay Equations Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_8.04)  |