**Walton High School Hub Curriculum** 

**Year 10 – Science Half term 5 (April 2025 – May 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 |
| 28/04/25 | Monday | **Chemistry** – Exothermic and Endothermic, Energy Profiles | [Exothermic & Endothermic Reactions Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_5.01) | [Bond Energies Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_5.02) |
| Tuesday | [Temperature Changes Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_11.04) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=250&lesson=4502) |
| Wednesday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=250&lesson=4501) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=250&lesson=4500) |
| Thursday | [Exothermic & Endothermic Reactions Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_5.01) | [Bond Energies Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_5.02) |
| Friday | [Temperature Changes Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_11.04) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=250&lesson=4502) |
| 05/05/25 | Monday |  |  |  |
| Tuesday | **Physics** – Newton’s Laws, Terminal Velocity, Braking Distances, Centre of Mass | [Newton's first law |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/moving-by-force/lessons/newtons-first-law/overview) | [Newton's Second Law (including inertia) |](https://www.thenational.academy/pupils/programmes/physics-secondary-year-11-higher-aqa/units/forces-make-things-change/lessons/newtons-second-law-including-inertia/overview) |
| Wednesday | [Newton’s Third Law (with free body diagrams in 2D) |](https://www.thenational.academy/pupils/programmes/physics-secondary-year-11-higher-aqa/units/forces-make-things-change/lessons/newtons-third-law-with-free-body-diagrams-in-2d/overview) | [Terminal velocity (including graphical representation) |](https://www.thenational.academy/pupils/programmes/physics-secondary-year-11-higher-aqa/units/forces-make-things-change/lessons/terminal-velocity-including-graphical-representation/overview) |
| Thursday | [Stopping (and estimating stopping distances) |](https://www.thenational.academy/pupils/programmes/physics-secondary-year-11-higher-aqa/units/forces-make-things-change/lessons/stopping-and-estimating-stopping-distances/overview) | [Stopping safely |](https://www.thenational.academy/pupils/programmes/physics-secondary-year-11-higher-aqa/units/forces-make-things-change/lessons/stopping-safely/overview) |
| 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) |
| 12/05/25 | Monday | **Retrieval time for Mock Examination Preparation** | [Cell Structure Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.02) | [Microscopy - Units of Conversion Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.05) |
| Tuesday | [Mitosis Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_8.09) | [Active Transport Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.09) |
| Wednesday | [Diffusion Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.07) | [Osmosis Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.08) |
| Thursday | [Cell Organisation - Tissues, Organs etc Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-t_1.18) | [Atoms Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.01) |
| Friday | [Elements, Isotopes & Relative Atomic Mass Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.02) | [Group 1 (Alkali Metals) Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.14) |
| 19/05/25 | Monday | [Group 7 & Group 0 (Halogens & Noble Gases) Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.15) | [Ionic Bonding Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.02) |
| Tuesday | [Covalent Bonding Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.04) | [Metallic Bonding Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.1) |
| Wednesday | [V=IR Equation & I-V Graphs Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.02) | [Charge, Current & Time Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.03) |
| Thursday | [AC & DC Current Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.1) | [Parallel Circuits Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.05) |
| Friday | [Alpha, Beta and Gamma Radiation Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_8.03) | [Longitudinal & Transverse Waves Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.01) |