**Walton High School Hub Curriculum** 

**Year 8 – 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 | **Chemistry** – Metal Reactions | [Metallic elements |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/atoms-elements-and-compounds/lessons/metallic-elements/overview) | [Molecular elements |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/atoms-elements-and-compounds/lessons/molecular-elements/overview) |
| Tuesday | [Common elements |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/atoms-elements-and-compounds/lessons/common-elements/overview) | [Compounds and their formation |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/atoms-elements-and-compounds/lessons/compounds-and-their-formation/overview) |
| Wednesday | [Chemical formulae |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/atoms-elements-and-compounds/lessons/chemical-formulae/overview) | [Naming compounds |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/atoms-elements-and-compounds/lessons/naming-compounds/overview) |
| Thursday | [Chemical reactions: acid and metal |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/understanding-chemical-reactions/lessons/chemical-reactions-acid-and-metal/overview) | [Chemical reactions: acid and metal carbonate |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/understanding-chemical-reactions/lessons/chemical-reactions-acid-and-metal-carbonate/overview) |
| Friday | [Developing a reactivity series for metals |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/developing-a-reactivity-series-for-metals/overview) | [Extraction of metals by reduction |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/extraction-of-metals-by-reduction/overview) |
| 03/03/25 | Monday | **Physics** - Space | [The shape of Earth |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/the-shape-of-earth/overview) | [The shape of objects in space |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/the-shape-of-objects-in-space/overview) |
| Tuesday | [Observing the Moon |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/observing-the-moon/overview) | [The relative sizes of the Earth, Sun and Moon (non-statutory) |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/the-relative-sizes-of-the-earth-sun-and-moon-non-statutory/overview) |
| Wednesday | [More about the Sun (non-statutory) |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/more-about-the-sun-non-statutory/overview) | [Why we have day and night |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/why-we-have-day-and-night/overview) |
| Thursday | [Why the Sun appears to move across the sky |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/why-the-sun-appears-to-move-across-the-sky/overview) | [The planets in our solar system (non-statutory) |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/the-planets-in-our-solar-system-non-statutory/overview) |
| Friday | [The movement of the planets around the Sun |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/the-movement-of-the-planets-around-the-sun/overview) | [Scientific theories from the past (non-statutory) |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/scientific-theories-from-the-past-non-statutory/overview) |
| 10/03/25 | Monday | **Chemistry** – Extracting Metals | [Developing a reactivity series for metals |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/developing-a-reactivity-series-for-metals/overview) | [Extraction of metals by reduction |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/extraction-of-metals-by-reduction/overview) |
| Tuesday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=252&lesson=2705) | [Alternative methods of extracting metals: phytomining and bioleaching |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/alternative-methods-of-extracting-metals-phytomining-and-bioleaching/overview) |
| Wednesday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=252&lesson=2700) | [Metals & Non-Metals Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.12) |
| Thursday | [The Reactivity Series & Displacement Reactions Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_4.06) | [Separating Metals from Metal Oxides Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_4.08) |
| Friday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=252&lesson=2709) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=250&lesson=4466) |
| 17/03/25 | Monday | **Physics** - Space | [How we see the Moon from Earth |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/how-we-see-the-moon-from-earth/overview) | [The movement of the Moon |](https://www.thenational.academy/pupils/programmes/science-primary-year-5/units/earth-sun-and-moon/lessons/the-movement-of-the-moon/overview) |
| Tuesday | [The spinning Earth |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/solar-system-and-beyond/lessons/the-spinning-earth/overview) | [Our solar system |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/solar-system-and-beyond/lessons/our-solar-system/overview) |
| Wednesday | [Gravity |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/solar-system-and-beyond/lessons/gravity/overview) | [Stars, galaxies and the universe |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/solar-system-and-beyond/lessons/stars-galaxies-and-the-universe/overview) |
| Thursday | [Heating by the Sun |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/solar-system-and-beyond/lessons/heating-by-the-sun/overview) | [Earth's tilt |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/solar-system-and-beyond/lessons/earths-tilt/overview) |
| Friday | [Seasons on Earth |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/solar-system-and-beyond/lessons/seasons-on-earth/overview) | [Changing ideas about Earth |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/solar-system-and-beyond/lessons/changing-ideas-about-earth/overview) |
| 24/03/25 | Monday | **Chemistry** - Materials | [Inside rock |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/earths-resources/lessons/inside-rock/overview) | [Rocks and minerals |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/earths-resources/lessons/rocks-and-minerals/overview) |
| Tuesday | [Types of rocks |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/earths-resources/lessons/types-of-rocks/overview) | [Structure of Earth |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/earths-resources/lessons/structure-of-earth/overview) |
| Wednesday | [What are everyday materials made from? |](https://www.thenational.academy/pupils/programmes/science-primary-year-6-l/units/sustainability-d96e/lessons/what-are-everyday-materials-made-from-c5hkad/overview) | [Why is recycling important? |](https://www.thenational.academy/pupils/programmes/science-primary-year-6-l/units/sustainability-d96e/lessons/why-is-recycling-important-60rkjc/overview) |
| Thursday | [What is a life cycle assessment? |](https://www.thenational.academy/pupils/programmes/science-primary-year-6-l/units/sustainability-d96e/lessons/what-is-a-life-cycle-assessment-6xgk8r/overview) | [Sustainable Development - Reuse & Recycling Lesson |](https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_10.05) |
| Friday | [Earth's resources and sustainable development |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/earths-resources-and-sustainable-development/overview) | [Life cycle assessments (LCAs) |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/life-cycle-assessments-lcas/overview) |
| 31/03/25 | Monday | **Physics** – Retrieval Practice | [Energy stores and transfers |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/energy-2ga1p6y/lessons/energy-stores-and-transfers-q4rg3i/overview) | [Conservation of Energy and Efficiency |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/energy-2ga1p6y/lessons/conservation-of-energy-and-efficiency-7d68ho/overview) |
| Tuesday | [Conduction |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/energy-2ga1p6y/lessons/conduction-0yz3wp/overview) | [Convection |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/energy-2ga1p6y/lessons/convection-6acbiv/overview) |
| Wednesday | [Radiation |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/energy-2ga1p6y/lessons/radiation-d7lcc2/overview) | [Insulation |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/energy-2ga1p6y/lessons/insulation-n8r8ye/overview) |
| Thursday | [Power and energy |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/energy-2ga1p6y/lessons/power-and-energy-o9ueal/overview) | [Energy in the home |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/energy-2ga1p6y/lessons/energy-in-the-home-dabp49/overview) |
| Friday | [Balanced and unbalanced forces |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/forces/lessons/balanced-and-unbalanced-forces/overview) | [Friction |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/forces/lessons/friction/overview) |
| 07/04/25 | Monday | **Chemistry** – Retrieval Practice | [Elements |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/atoms-and-the-periodic-table-9q9t0p6/lessons/elements-4rclyu/overview) | [Compounds |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/atoms-and-the-periodic-table-9q9t0p6/lessons/compounds-gb87ga/overview) |
| Tuesday | [Chemical reactions |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/atoms-and-the-periodic-table-9q9t0p6/lessons/chemical-reactions-p26zu7/overview) | [Conservation of mass |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/atoms-and-the-periodic-table-9q9t0p6/lessons/conservation-of-mass-xs2ddb/overview) |
| Wednesday | [Development of the Periodic Table |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/atoms-and-the-periodic-table-9q9t0p6/lessons/development-of-the-periodic-table-r21gyc/overview) | [Metals and non-metals |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/atoms-and-the-periodic-table-9q9t0p6/lessons/metals-and-non-metals-2t0ylw/overview) |
| Thursday | [Group 1 |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/atoms-and-the-periodic-table-9q9t0p6/lessons/group-1-7sf5im/overview) | [Group 7 |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7-l/units/atoms-and-the-periodic-table-9q9t0p6/lessons/group-7-lfrpjz/overview) |
| Friday | [Groups of elements in the periodic table |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/patterns-in-the-periodic-table/lessons/groups-of-elements-in-the-periodic-table/overview) | [Group 0 (Noble Gases) |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/patterns-in-the-periodic-table/lessons/group-0-noble-gases/overview) |