**Walton High School Hub Curriculum** 

**Year 7 - 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** - Microscopy | [The common processes of all living organisms |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/cells/lessons/the-common-processes-of-all-living-organisms/overview) | [Observing cells with a light microscope |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/cells/lessons/observing-cells-with-a-light-microscope/overview) |
| Tuesday | [Preparing and observing a microscope slide |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/cells/lessons/preparing-and-observing-a-microscope-slide/overview) | [Animal cell structures and their functions |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/cells/lessons/animal-cell-structures-and-their-functions/overview) |
| Wednesday | [Plant cell structures and their functions |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/cells/lessons/plant-cell-structures-and-their-functions/overview) | [Multicellular and unicellular organisms |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/cells/lessons/multicellular-and-unicellular-organisms/overview) |
| Thursday | [Specialised cells are adapted for their functions |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/cells/lessons/specialised-cells-are-adapted-for-their-functions/overview) | [Comparing characteristics of living things |](https://www.thenational.academy/pupils/programmes/science-primary-year-6/units/why-we-group-and-classify-living-things/lessons/comparing-characteristics-of-living-things/overview) |
| Friday | [How and why we group animals |](https://www.thenational.academy/pupils/programmes/science-primary-year-6/units/why-we-group-and-classify-living-things/lessons/how-and-why-we-group-animals/overview) | [How and why we group plants |](https://www.thenational.academy/pupils/programmes/science-primary-year-6/units/why-we-group-and-classify-living-things/lessons/how-and-why-we-group-plants/overview) |
| 13/01/25 | Monday | **Chemistry** – Structure of the Earth | [How is igneous rock formed? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-is-igneous-rock-formed-70v66r/overview) | [How is metamorphic rock formed? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-is-metamorphic-rock-formed-c4uk8d/overview) |
| Tuesday | [How is sedimentary rock formed? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-is-sedimentary-rock-formed-6tj3ae/overview) | [How can we identify different types of rock? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-can-we-identify-different-types-of-rock-c4u34t/overview) |
| Wednesday | [How do the rocks on our Earth's surface change? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-do-the-rocks-on-our-earths-surface-change-65jkjt/overview) | [What are the steps in the rock cycle? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/what-are-the-steps-in-the-rock-cycle-74v6cr/overview) |
| Thursday | [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) |
| Friday | [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) |
| 20/01/25 | Monday | **Biology** - Cells | [Cells |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-foundation-aqa/units/eukaryotic-and-prokaryotic-cells/lessons/cells/overview) | [Light microscopy: observing and drawing cells |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-foundation-aqa/units/eukaryotic-and-prokaryotic-cells/lessons/light-microscopy-observing-and-drawing-cells/overview) |
| Tuesday | [Animal cells: common structures and specialised cells |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-foundation-aqa/units/eukaryotic-and-prokaryotic-cells/lessons/animal-cells-common-structures-and-specialised-cells/overview) | [Plant cells: common structures and specialised cells |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-foundation-aqa/units/eukaryotic-and-prokaryotic-cells/lessons/plant-cells-common-structures-and-specialised-cells/overview) |
| Wednesday | [Eukaryotic and prokaryotic organisms |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-foundation-aqa/units/eukaryotic-and-prokaryotic-cells/lessons/eukaryotic-and-prokaryotic-organisms/overview) | [Common structures of prokaryotic cells |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-foundation-aqa/units/eukaryotic-and-prokaryotic-cells/lessons/common-structures-of-prokaryotic-cells/overview) |
| Thursday | [The size and scale of cells: the basics |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-foundation-aqa/units/eukaryotic-and-prokaryotic-cells/lessons/the-size-and-scale-of-cells-the-basics/overview) | [Cell Structure Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-c_1.02) |
| Friday | [Microscopy - What it is Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-c_1.04) | [Microscopy - Units of Conversion Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-c_1.05) |
| 27/01/25 | Monday | **Chemistry** – Rocks | [How is igneous rock formed? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-is-igneous-rock-formed-70v66r/overview) | [How is metamorphic rock formed? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-is-metamorphic-rock-formed-c4uk8d/overview) |
| Tuesday | [How is sedimentary rock formed? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-is-sedimentary-rock-formed-6tj3ae/overview) | [How can we identify different types of rock? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-can-we-identify-different-types-of-rock-c4u34t/overview) |
| Wednesday | [How do the rocks on our Earth's surface change? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/how-do-the-rocks-on-our-earths-surface-change-65jkjt/overview) | [What are the steps in the rock cycle? |](https://www.thenational.academy/pupils/programmes/science-primary-year-4-l/units/rock-cycle-bd29/lessons/what-are-the-steps-in-the-rock-cycle-74v6cr/overview) |
| Thursday | [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) |
| Friday | [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) |
| 03/02/25 | Monday | **Biology** – Unicellular Organisms | [Micro-organisms are living things |](https://www.thenational.academy/pupils/programmes/science-primary-year-6/units/why-we-group-and-classify-living-things/lessons/micro-organisms-are-living-things/overview) | [Grouping micro-organisms |](https://www.thenational.academy/pupils/programmes/science-primary-year-6/units/why-we-group-and-classify-living-things/lessons/grouping-micro-organisms/overview) |
| Tuesday | [Cell Organisation - Tissues, Organs etc Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-c_1.18) | [Microscopy Lesson |](https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-h-c_11.01) |
| Wednesday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=3716) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=3717) |
| Thursday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=3717) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=3719) |
| Friday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=3720) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=3721) |
| 10/02/25 | Monday | **Chemistry** – Separating Mixtures | [Separating mixtures (including formulations) |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/separating-mixtures-including-formulations/overview) | [Solutions |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/solutions/overview) |
| Tuesday | [Filtration |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/filtration/overview) | [Crystallisation |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/crystallisation/overview) |
| Wednesday | [Chromatography: paper |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/chromatography-paper/overview) | [Interpreting chromatograms |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/interpreting-chromatograms/overview) |
| Thursday | [Chromatography: separating a mixture of inks |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/chromatography-separating-a-mixture-of-inks/overview) | [Distillation: simple distillation |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/distillation-simple-distillation/overview) |
| Friday | [Distillation: fractional distillation |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/separating-substances/lessons/distillation-fractional-distillation/overview) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=3918) |