**Walton High School Hub Curriculum** 

**Year 7 – 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** – Photosynthesis and Leaf Structure | [Plant nutrition |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/plant-nutrition-and-photosynthesis/lessons/plant-nutrition/overview) | [Photosynthesis |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/plant-nutrition-and-photosynthesis/lessons/photosynthesis/overview) |
| Tuesday | [Adaptations of plants for photosynthesis: absorbing light |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/plant-nutrition-and-photosynthesis/lessons/adaptations-of-plants-for-photosynthesis-absorbing-light/overview) | [Adaptations of plants for photosynthesis: gas exchange and stomata |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/plant-nutrition-and-photosynthesis/lessons/adaptations-of-plants-for-photosynthesis-gas-exchange-and-stomata/overview) |
| Wednesday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=3722) | [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=903) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=905) |
| Friday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=907) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=908) |
| 03/03/25 | Monday | **Chemistry** – Atmospheric Gases and Pollution | [Formation of sedimentary rock |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/formation-of-sedimentary-rock/overview) | [Fossils and the rock cycle |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/fossils-and-the-rock-cycle/overview) |
| Tuesday | [Formation of fossil fuels |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/formation-of-fossil-fuels/overview) | [Gases in the atmosphere |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/gases-in-the-atmosphere/overview) |
| Wednesday | [Atmospheric carbon |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/atmospheric-carbon/overview) | [The carbon cycle |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/the-carbon-cycle/overview) |
| Thursday | [Earth's atmosphere (approximate values) |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/earths-atmosphere-approximate-values/overview) | [Evolution of Earth's atmosphere |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/evolution-of-earths-atmosphere/overview) |
| Friday | [Burning hydrocarbons |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/burning-hydrocarbons/overview) | [Atmospheric pollutants |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/atmospheric-pollutants/overview) |
| 10/03/25 | Monday | **Biology** – Food chains and food webs | [Food chains |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/food-chains/overview) | [Predator-prey relationships |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/predator-prey-relationships/overview) |
| Tuesday | [Adaptations of predators and prey |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/adaptations-of-predators-and-prey/overview) | [Food webs |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/food-webs/overview) |
| Wednesday | [Ecosystems and habitats |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/ecosystems-and-habitats/overview) | [Pollination and human food security |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/pollination-and-human-food-security/overview) |
| Thursday | [Using chemicals in farming |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/using-chemicals-in-farming/overview) | [Bioaccumulation |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/bioaccumulation/overview) |
| Friday | [The importance of biodiversity |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/the-importance-of-biodiversity/overview) | [Interdependence within ecosystems |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/biodiversity/lessons/interdependence-within-ecosystems/overview) |
| 17/03/25 | Monday | **Chemistry** – Global warming | [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) |
| Tuesday | [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) | [What happens when fuels are burnt? |](https://www.thenational.academy/pupils/programmes/science-primary-year-6-l/units/sustainability-d96e/lessons/what-happens-when-fuels-are-burnt-74wk0t/overview) |
| Wednesday | [What is global warming? |](https://www.thenational.academy/pupils/programmes/science-primary-year-6-l/units/sustainability-d96e/lessons/what-is-global-warming-6gwp6r/overview) | [What is climate change? |](https://www.thenational.academy/pupils/programmes/science-primary-year-6-l/units/sustainability-d96e/lessons/what-is-climate-change-75k30t/overview) |
| Thursday | [Comparing fuels |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/fuels-and-energetics/lessons/comparing-fuels/overview) | [Power stations |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/fuels-and-energetics/lessons/power-stations/overview) |
| Friday | [Using renewable energy resources |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/fuels-and-energetics/lessons/using-renewable-energy-resources/overview) | [Acid rain and chemical weathering |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/acid-rain-and-chemical-weathering/overview) |
| 24/03/25 | Monday | **Biology** – Human Impact on the Environment | [Pyramids of number |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/biodiversity/lessons/pyramids-of-number/overview) | [Pyramids of biomass |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/biodiversity/lessons/pyramids-of-biomass/overview) |
| Tuesday | [Plants are adapted for their environment |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/biodiversity/lessons/plants-are-adapted-for-their-environment/overview) | [Animals are adapted for their environment |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/biodiversity/lessons/animals-are-adapted-for-their-environment/overview) |
| Wednesday | [Ecological sampling of living organisms |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/biodiversity/lessons/ecological-sampling-of-living-organisms/overview) | [Ecological sampling using a quadrat |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/biodiversity/lessons/ecological-sampling-using-a-quadrat/overview) |
| Thursday | [Conserving biodiversity |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/biodiversity/lessons/conserving-biodiversity/overview) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4300) |
| Friday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4302) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4303) |
| 31/03/25 | Monday | **Chemistry** – Reduce, Reuse, Recycle | [Greenhouse gases |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/greenhouse-gases/overview) | [Carbon dioxide in the atmosphere |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/carbon-dioxide-in-the-atmosphere/overview) |
| Tuesday | [Global climate change and the effects |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/global-climate-change-and-the-effects/overview) | [Human activity |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/human-activity/overview) |
| Wednesday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4563) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4562) |
| Thursday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4561) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4560) |
| Friday | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4559) | [Greenshaw Learning Trust - Remote Learning](https://www.greenshawlearningtrust.co.uk/virtual-curriculum?group=189&lesson=4558) |
| 07/04/25 | Monday | **Retrieval Practice** | [Food chains |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/food-chains/overview) | [Predator-prey relationships |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/ecosystems/lessons/predator-prey-relationships/overview) |
| Tuesday | [What is global warming? |](https://www.thenational.academy/pupils/programmes/science-primary-year-6-l/units/sustainability-d96e/lessons/what-is-global-warming-6gwp6r/overview) | [What is climate change? |](https://www.thenational.academy/pupils/programmes/science-primary-year-6-l/units/sustainability-d96e/lessons/what-is-climate-change-75k30t/overview) |
| Wednesday | [Atmospheric carbon |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/atmospheric-carbon/overview) | [The carbon cycle |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/the-carbon-cycle/overview) |
| Thursday | [Earth's atmosphere (approximate values) |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/earths-atmosphere-approximate-values/overview) | [Evolution of Earth's atmosphere |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-foundation-aqa/units/atmosphere-and-changing-climate/lessons/evolution-of-earths-atmosphere/overview) |
| Friday | [Adaptations of plants for photosynthesis: absorbing light |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/plant-nutrition-and-photosynthesis/lessons/adaptations-of-plants-for-photosynthesis-absorbing-light/overview) | [Adaptations of plants for photosynthesis: gas exchange and stomata |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/plant-nutrition-and-photosynthesis/lessons/adaptations-of-plants-for-photosynthesis-gas-exchange-and-stomata/overview) |