**Walton High School Hub Curriculum** 

**Year 9 – Science Half term 6 (June 2025 – July 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 |
| 02/06/25 | Monday | **Biology** – DNA and Genes | [Heredity |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/heredity-and-dna/lessons/heredity/overview) | [Heredity and genetic material |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/heredity-and-dna/lessons/heredity-and-genetic-material/overview) |
| Tuesday | [Genetic material and DNA |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/heredity-and-dna/lessons/genetic-material-and-dna/overview) | [A model of the structure of DNA |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/heredity-and-dna/lessons/a-model-of-the-structure-of-dna/overview) |
| Wednesday | [DNA from fruit |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/heredity-and-dna/lessons/dna-from-fruit/overview) | [The discovery of the structure of DNA |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/heredity-and-dna/lessons/the-discovery-of-the-structure-of-dna/overview) |
| Thursday | [DNA, chromosomes, genes and the genome |](https://www.thenational.academy/pupils/programmes/science-secondary-year-7/units/heredity-and-dna/lessons/dna-chromosomes-genes-and-the-genome/overview) | [Reproduction and variation |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/variation-differences-within-species/lessons/reproduction-and-variation/overview) |
| Friday | [Variation within species |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/variation-differences-within-species/lessons/variation-within-species/overview) | [Continuous and discontinuous variation: practical |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/variation-differences-within-species/lessons/continuous-and-discontinuous-variation-practical/overview) |
| 09/06/25 | Monday | **Chemistry** – The Atmosphere | [Physical weathering and erosion |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/physical-weathering-and-erosion/overview) | [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) |
| Tuesday | [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) | [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) |
| Wednesday | [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) | [Atmospheric carbon |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/atmospheric-carbon/overview) |
| Thursday | [The carbon cycle |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/carbon-cycle-and-climate-change/lessons/the-carbon-cycle/overview) | [Hydrocarbons |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-10-higher-aqa/units/chemistry-of-carbon/lessons/hydrocarbons/overview) |
| Friday | [Earth's atmosphere (approximate values) |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-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-higher-aqa/units/atmosphere-and-changing-climate/lessons/evolution-of-earths-atmosphere/overview) |
| 16/06/25 | Monday | **Physics** - Electricity | [Making a series circuit |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/series-circuits/lessons/making-a-series-circuit/overview) | [Fixing faulty circuits |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/series-circuits/lessons/fixing-faulty-circuits/overview) |
| Tuesday | [Electric current |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/series-circuits/lessons/electric-current/overview) | [Measuring electric current |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/series-circuits/lessons/measuring-electric-current/overview) |
| Wednesday | [Measuring voltage |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/series-circuits/lessons/measuring-voltage/overview) | [Changing voltage |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/series-circuits/lessons/changing-voltage/overview) |
| Thursday | [Static electricity |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/series-circuits/lessons/static-electricity/overview) | [Static electricity: charge |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/series-circuits/lessons/static-electricity-charge/overview) |
| Friday | [Electrical resistance |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/electrical-resistance/overview) | [Thickness of a wire |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/thickness-of-a-wire/overview) |
| 23/06/25 | Monday | **Biology** – Variation and Inheritance | [Discontinuous variation: data handling and analysis |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/variation-differences-within-species/lessons/discontinuous-variation-data-handling-and-analysis/overview) | [Continuous variation: data handling and analysis |](https://www.thenational.academy/pupils/programmes/science-secondary-year-8/units/variation-differences-within-species/lessons/continuous-variation-data-handling-and-analysis/overview) |
| Tuesday | [Heritable variation |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/adaptations-competition-natural-selection-and-evolution/lessons/heritable-variation/overview) | [Natural selection |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/adaptations-competition-natural-selection-and-evolution/lessons/natural-selection/overview) |
| Wednesday | [A model of natural selection |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/adaptations-competition-natural-selection-and-evolution/lessons/a-model-of-natural-selection/overview) | [Evolution |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/adaptations-competition-natural-selection-and-evolution/lessons/evolution/overview) |
| Thursday | [The genome |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/dna-and-the-genome/lessons/the-genome/overview) | [The chemical structure of DNA |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/dna-and-the-genome/lessons/the-chemical-structure-of-dna/overview) |
| Friday |  |  |  |
| 30/06/25 | Monday | **Chemistry** – Global Warming | [Burning hydrocarbons |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/atmosphere-and-changing-climate/lessons/burning-hydrocarbons/overview) | [Atmospheric pollutants |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/atmosphere-and-changing-climate/lessons/atmospheric-pollutants/overview) |
| Tuesday | [Acid rain and chemical weathering |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/atmosphere-and-changing-climate/lessons/acid-rain-and-chemical-weathering/overview) | [Greenhouse gases |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/atmosphere-and-changing-climate/lessons/greenhouse-gases/overview) |
| Wednesday | [Carbon dioxide in the atmosphere |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/atmosphere-and-changing-climate/lessons/carbon-dioxide-in-the-atmosphere/overview) | [Global climate change and the effects |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/atmosphere-and-changing-climate/lessons/global-climate-change-and-the-effects/overview) |
| Thursday | [Human activity |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/atmosphere-and-changing-climate/lessons/human-activity/overview) | [Ozone layer: a story of global success |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/atmosphere-and-changing-climate/lessons/ozone-layer-a-story-of-global-success/overview) |
| Friday | [Fractional distillation of crude oil |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/fractional-distillation-of-crude-oil/overview) | [Cracking fractions of crude oil |](https://www.thenational.academy/pupils/programmes/chemistry-secondary-year-11-higher-aqa/units/using-earths-resources/lessons/cracking-fractions-of-crude-oil/overview) |
| 07/07/25 | Monday | **Physics** – Electricity | [Length of a wire |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/length-of-a-wire/overview) | [Making parallel circuits |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/making-parallel-circuits/overview) |
| Tuesday | [Voltage in parallel circuits |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/voltage-in-parallel-circuits/overview) | [Loops of a parallel circuit |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/loops-of-a-parallel-circuit/overview) |
| Wednesday | [Measuring current in a parallel circuit |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/measuring-current-in-a-parallel-circuit/overview) | [Comparing series and parallel circuits |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/comparing-series-and-parallel-circuits/overview) |
| Thursday | [Mains electricity |](https://www.thenational.academy/pupils/programmes/science-secondary-year-9/units/resistance-and-parallel-circuits/lessons/mains-electricity/overview) | [Fuses & Earthing Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.12) |
| Friday | [AC & DC Current Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.1) | [National Grid Lesson |](https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_5.09) |
| 14/07/25 | Monday | **Biology –** DNA and Inheritance | [The genome, the environment and phenotype |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/dna-and-the-genome/lessons/the-genome-the-environment-and-phenotype/overview) | [The genetic code |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/dna-and-the-genome/lessons/the-genetic-code/overview) |
| Tuesday | [Protein synthesis |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/dna-and-the-genome/lessons/protein-synthesis/overview) | [Mutations and genetic variants |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/dna-and-the-genome/lessons/mutations-and-genetic-variants/overview) |
| Wednesday | [Genetic variants in genes can influence phenotype |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/dna-and-the-genome/lessons/genetic-variants-in-genes-can-influence-phenotype/overview) | [Genetic variants in non-coding DNA can influence phenotype |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/dna-and-the-genome/lessons/genetic-variants-in-non-coding-dna-can-influence-phenotype/overview) |
| Thursday | [Alleles, genotype, and phenotype |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/inheritance-genotype-and-phenotype/lessons/alleles-genotype-and-phenotype-d7978/overview) | [Models of single-gene inheritance: Punnett squares |](https://www.thenational.academy/pupils/programmes/biology-secondary-year-10-higher-aqa/units/inheritance-genotype-and-phenotype/lessons/models-of-single-gene-inheritance-punnett-squares/overview) |
| Friday |  |  |  |