**Walton High School Hub Curriculum** 

**Year 9 – Maths**

**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 | Topic | Lesson 1 | Lesson 2 |
| 06/01/25 | Monday | Sequences | [Checking understanding of sequences |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/checking-understanding-of-sequences/overview) | [Securing understanding of sequences |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/securing-understanding-of-sequences/overview) |
| Tuesday | [Formalising a sequence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/formalising-a-sequence/overview) | [Generating a sequence using a term-to-term rule |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/generating-a-sequence-using-a-term-to-term-rule/overview) |
| Wednesday | [Generating a sequence using a position-to-term rule |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/generating-a-sequence-using-a-position-to-term-rule/overview) | [Arithmetic sequences |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/arithmetic-sequences/overview) |
| Thursday | [Expressing an arithmetic sequence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/expressing-an-arithmetic-sequence/overview) | [Calculating any term |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/calculating-any-term/overview) |
| Friday | [Finding the nth term |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/finding-the-nth-term/overview) | [Representing sequences graphically |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/representing-sequences-graphically/overview) |
| 13/01/25 | Monday | [Justifying terms of a sequence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/justifying-terms-of-a-sequence/overview) | [Problem solving with sequences |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/problem-solving-with-sequences/overview) |
| Tuesday | [Write the nth term of a linear sequence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/linear-sequences-f0bf/lessons/write-the-nth-term-of-a-linear-sequence-70w62d/overview) | [Find terms of a linear sequence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/linear-sequences-f0bf/lessons/find-terms-of-a-linear-sequence-6xhpar/overview) |
| Wednesday | [Triangular and Fibonacci style sequences |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/linear-sequences-f0bf/lessons/triangular-and-fibonacci-style-sequences-69gk8d/overview) | [Simple quadratic and cubic sequences |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/linear-sequences-f0bf/lessons/simple-quadratic-and-cubic-sequences-c9j6ac/overview) |
| Thursday | [Checking understanding of sequences |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/checking-understanding-of-sequences/overview) | [Securing understanding of sequences |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/securing-understanding-of-sequences/overview) |
| Friday | [Formalising a sequence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/formalising-a-sequence/overview) | [Generating a sequence using a term-to-term rule |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/sequences/lessons/generating-a-sequence-using-a-term-to-term-rule/overview) |
| 20/01/25 | Monday | Linear Graphs | [Checking and securing understanding of plotting coordinates |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/checking-and-securing-understanding-of-plotting-coordinates/overview) | [Checking and securing understanding of plotting coordinates generated from a rule |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/checking-and-securing-understanding-of-plotting-coordinates-generated-from-a-rule/overview) |
| Tuesday | [Checking and securing understanding of plotting coordinates with technology |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/checking-and-securing-understanding-of-plotting-coordinates-with-technology/overview) | [Checking and securing plotting a relationship |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/checking-and-securing-plotting-a-relationship/overview) |
| Wednesday | [Features of linear relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/features-of-linear-relationships/overview) | [Defining features of linear relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/defining-features-of-linear-relationships/overview) |
| Thursday | [Positive rate of change from a graph |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/positive-rate-of-change-from-a-graph/overview) | [Negative rate of change from a graph |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/negative-rate-of-change-from-a-graph/overview) |
| Friday | [Rate of change from a coordinate pair |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/rate-of-change-from-a-coordinate-pair/overview) | [The intercept point |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/the-intercept-point/overview) |
| 27/01/25 | Monday | [The equation of a straight line |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/the-equation-of-a-straight-line/overview) | [Finding the equation of the line y = mx + c |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/finding-the-equation-of-the-line-y-equals-mx-plus-c/overview) |
| Tuesday | [Finding the equation of the line ay + bx + c = 0 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/finding-the-equation-of-the-line-ay-plus-bx-plus-c-equals-0/overview) | [Using dynamic software to explore linear relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/using-dynamic-software-to-explore-linear-relationships/overview) |
| Wednesday | [Problem solving with graphing linear relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-linear-equations/lessons/problem-solving-with-graphing-linear-relationships/overview) | [Equations and their graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/graphical-representations/lessons/equations-and-their-graphs/overview) |
| Thursday | [Efficiently drawing linear graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/graphical-representations/lessons/efficiently-drawing-linear-graphs/overview) | [Reading from graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/graphical-representations/lessons/reading-from-graphs/overview) |
| Friday | [Modelling with graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/graphical-representations/lessons/modelling-with-graphs/overview) | [Graphically solving two linear graphs that intersect |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/graphical-representations/lessons/graphically-solving-two-linear-graphs-that-intersect/overview) |
| 03/02/25 | Monday | [Problem solving with graphical representations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/graphical-representations/lessons/problem-solving-with-graphical-representations/overview) | [Review of linear graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/review-of-linear-graphs-6wwkad/overview) |
| Tuesday | [Points of intersection |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/points-of-intersection-6hhk0d/overview) | [Representing simultaneous equations graphically (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/representing-simultaneous-equations-graphically-part-1-6gt36c/overview) |
| Wednesday | [Representing simultaneous equations graphically (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/representing-simultaneous-equations-graphically-part-2-6dhp8e/overview) | [Comparing algebraic and graphical methods for solving simultaneous equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/comparing-algebraic-and-graphical-methods-for-solving-simultaneous-equations-64w6cd/overview) |
| Thursday | [Solving inequalities graphically (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/solving-inequalities-graphically-part-1-cdgp6d/overview) | [Shading regions to satisfy a set of inequalities |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/shading-regions-to-satisfy-a-set-of-inequalities-61h3cd/overview) |
| Friday | [Solving inequalities graphically (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/solving-inequalities-graphically-part-2-6mtp2r/overview) | [Review of linear graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-graphically-cfe7/lessons/review-of-linear-graphs-6wwkad/overview) |
| 10/02/25 | Monday | 3D shapes; measure, area and volume | [Area of composite shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/area-of-composite-shapes/overview) | [Perimeter of composite shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/perimeter-of-composite-shapes/overview) |
| Tuesday | [Finding a length in composite shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/finding-a-length-in-composite-shapes/overview) | [Surface area of cuboids |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/surface-area-of-cuboids/overview) |
| Wednesday | [Properties of prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/properties-of-prisms/overview) | [Surface area of prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/surface-area-of-prisms/overview) |
| Thursday | [Surface area of cylinders |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/surface-area-of-cylinders/overview) | [Volume of prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/volume-of-prisms/overview) |
| Friday | [Volume of cylinders |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/volume-of-cylinders/overview) | [Problem solving with perimeter, area and volume |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/problem-solving-with-perimeter-area-and-volume/overview) |