**Walton High School Hub Curriculum** 

**Year 8 – 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 | Measures and mensuration | [Checking understanding of perimeter and area |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/checking-understanding-of-perimeter-and-area/overview)  | [Securing understanding of perimeter and area |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/securing-understanding-of-perimeter-and-area/overview)  |
| Tuesday | [Finding the perimeter of polygons |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/finding-the-perimeter-of-polygons/overview)  | [Calculating missing lengths with perimeter of polygons |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/calculating-missing-lengths-with-perimeter-of-polygons/overview)  |
| Wednesday | [Perimeter with composite rectilinear shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/perimeter-with-composite-rectilinear-shapes/overview)  | [Area of a triangle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/area-of-a-triangle/overview)  |
| Thursday  | [Using the formula for the area of a triangle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/using-the-formula-for-the-area-of-a-triangle/overview)  | [Area of composite rectilinear shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/area-of-composite-rectilinear-shapes/overview)  |
| Friday | [Calculating missing side lengths from the area of composite rectilinear shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/calculating-missing-side-lengths-from-the-area-of-composite-rectilinear-shapes/overview)  | [Area of a trapezium |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/area-of-a-trapezium/overview)  |
| 13/01/25 | Monday  | [Calculating missing side lengths from the area of a trapezium |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/calculating-missing-side-lengths-from-the-area-of-a-trapezium/overview)  | [Problem solving with perimeter and area |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/perimeter-and-area/lessons/problem-solving-with-perimeter-and-area/overview)  |
| Tuesday  | [Describing perimeters |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/area-of-2-d-shapes-13b9/lessons/describing-perimeters-74u30d/overview)  | [Describing areas |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/area-of-2-d-shapes-13b9/lessons/describing-areas-75h62r/overview)  |
| Wednesday  | [Cutting and combining shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/area-of-2-d-shapes-13b9/lessons/cutting-and-combining-shapes-c5j66d/overview)  | [Exploring rectangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/area-of-2-d-shapes-13b9/lessons/exploring-rectangles-69k64d/overview)  |
| Thursday  | [Rectilinear shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/area-of-2-d-shapes-13b9/lessons/rectilinear-shapes-6wr34r/overview)  | [Area of parallelograms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/area-of-2-d-shapes-13b9/lessons/area-of-parallelograms-6wup2e/overview)  |
| Friday | [Area of triangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/area-of-2-d-shapes-13b9/lessons/area-of-triangles-6cwkar/overview)  | [Further triangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/area-of-2-d-shapes-13b9/lessons/further-triangles-68u6ae/overview)  |
| 20/01/25 | Monday | [Circumference of a circle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/circumference-of-a-circle/overview)  | [Area of a circle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/area-of-a-circle/overview)  |
| Tuesday | [Using the formula for the area of a circle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/using-the-formula-for-the-area-of-a-circle/overview)  | [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)  |
| Wednesday | [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)  | [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)  |
| Thursday | [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)  | [Properties of prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/perimeter-area-and-volume/lessons/properties-of-prisms/overview)  |
| Friday | [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)  | [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)  |
| 27/01/25 | Monday | Functions and 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)  |
| 03/02/25 | 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)  | [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)  |
| Thursday | [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)  |
| Friday | [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)  |
| 10/02/25 | Monday | [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)  |
| Tuesday | [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)  |
| Wednesday | [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)  |
| Thursday | [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)  |
| Friday | [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)  |