**Walton High School Hub Curriculum** 

**Year 10 FOUNDATION – Maths**

**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 | Topic | Lesson 1 | Lesson 2 |
| 24/02/25 | Monday | Averages  | [Checking understanding of the mean |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/checking-understanding-of-the-mean/overview)  | [Calculating the mean |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/calculating-the-mean/overview)  |
| Tuesday | [Understanding the median |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/understanding-the-median/overview)  | [Calculating the median |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/calculating-the-median/overview)  |
| Wednesday | [Understanding the mode |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/understanding-the-mode/overview)  | [Calculating the mode |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/calculating-the-mode/overview)  |
| Thursday  | [Understanding and calculating the range |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/understanding-and-calculating-the-range/overview)  | [Summarising data |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/summarising-data/overview)  |
| Friday | [Changing a data point |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/changing-a-data-point/overview)  | [Evaluating the range |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/evaluating-the-range/overview)  |
| 03/03/25 | Monday  | [Comparing statistical representations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/comparing-statistical-representations/overview)  | [Comparing summaries of data |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/comparing-summaries-of-data/overview)  |
| Tuesday  | [Analysing different statistical representations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/analysing-different-statistical-representations/overview)  | [Correlation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/correlation/overview) |
| Wednesday  | [Statistical problems - data collection |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/statistical-problems-data-collection/overview)  | [Statistical problems - statistical summaries |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/statistical-problems-statistical-summaries/overview)  |
| Thursday  | [Statistical problems - data presentations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/statistical-problems-data-presentations/overview)  | [Statistical problems - drawing conclusions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/statistical-problems-drawing-conclusions/overview)  |
| Friday | [Problem solving with numerical summaries of data |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/problem-solving-with-numerical-summaries-of-data/overview)  | [Find the mean, median, mode and range from a list of numbers |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/averages-from-a-list-and-tables-stem-and-leaf-2afc/lessons/find-the-mean-median-mode-and-range-from-a-list-of-numbers-chhker/overview)  |
| 10/03/25 | Monday | Volumes | [Volume of Cubes and Cuboids |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/volume-and-surface-area-1-prisms-f8ea/lessons/volume-of-cubes-and-cuboids-6hhk6r/overview)  | [Finding the Volume of Triangular Prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/volume-and-surface-area-1-prisms-f8ea/lessons/finding-the-volume-of-triangular-prisms-6cukgd/overview)  |
| Tuesday | [Finding the Surface Area of Cubes and Cuboids |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/volume-and-surface-area-1-prisms-f8ea/lessons/finding-the-surface-area-of-cubes-and-cuboids-6nh68c/overview)  | [Finding the Surface Area of Triangular Prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/volume-and-surface-area-1-prisms-f8ea/lessons/finding-the-surface-area-of-triangular-prisms-6dh3ae/overview)  |
| Wednesday | [Find the volume of a cylinder |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/cylinders-0b9e/lessons/find-the-volume-of-a-cylinder-cmrpce/overview) | [Volume of a cylinder problems |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/cylinders-0b9e/lessons/volume-of-a-cylinder-problems-74t66c/overview)  |
| Thursday | [Surface area of a cylinder |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/cylinders-0b9e/lessons/surface-area-of-a-cylinder-c5j34e/overview)  | [Surface area problems |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/cylinders-0b9e/lessons/surface-area-problems-60ukjt/overview)  |
| Friday | [Volume of Cubes and Cuboids |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/volume-and-surface-area-1-2-a34e/lessons/volume-of-cubes-and-cuboids-6hhk6r/overview)  | [Finding the Volume of Triangular Prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/volume-and-surface-area-1-2-a34e/lessons/finding-the-volume-of-triangular-prisms-6cukgd/overview) |
| 17/03/25 | Monday | [Finding the Surface Area of Cubes and Cuboids |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/volume-and-surface-area-1-2-a34e/lessons/finding-the-surface-area-of-cubes-and-cuboids-6nh68c/overview)  | [Finding the Surface Area of Triangular Prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/volume-and-surface-area-1-2-a34e/lessons/finding-the-surface-area-of-triangular-prisms-6dh3ae/overview)  |
| Tuesday | [Volume and surface area of a pyramid |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/volume-and-surface-area-1-2-a34e/lessons/volume-and-surface-area-of-a-pyramid-ccr6ct/overview)  | [Volume and surface area of a cone |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/volume-and-surface-area-1-2-a34e/lessons/volume-and-surface-area-of-a-cone-70v68t/overview)  |
| Wednesday | [Volume and surface area of a sphere |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/volume-and-surface-area-1-2-a34e/lessons/volume-and-surface-area-of-a-sphere-6rvp6t/overview)  | [Volume and surface area of composite solids |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/volume-and-surface-area-1-2-a34e/lessons/volume-and-surface-area-of-composite-solids-71hk0t/overview)  |
| Thursday | [Volume of Cubes and Cuboids |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/volume-and-surface-area-1-prisms-f8ea/lessons/volume-of-cubes-and-cuboids-6hhk6r/overview)  | [Finding the Volume of Triangular Prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/volume-and-surface-area-1-prisms-f8ea/lessons/finding-the-volume-of-triangular-prisms-6cukgd/overview)  |
| Friday | [Finding the Surface Area of Cubes and Cuboids |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/volume-and-surface-area-1-prisms-f8ea/lessons/finding-the-surface-area-of-cubes-and-cuboids-6nh68c/overview)  | [Finding the Surface Area of Triangular Prisms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/volume-and-surface-area-1-prisms-f8ea/lessons/finding-the-surface-area-of-triangular-prisms-6dh3ae/overview)  |
| 24/03/25 | Monday  | Scales and bearings | [Know the cardinal compass and the three rules of bearings |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/bearings-7867/lessons/know-the-cardinal-compass-and-the-three-rules-of-bearings-c9h38e/overview)  | [Measure the 3-figure bearing between 2 points and find a point when given a 3-figure bearing and length |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/bearings-7867/lessons/measure-the-3-figure-bearing-between-2-points-and-find-a-point-when-given-a-3-figure-bearing-and-length-cdk64e/overview)  |
| Tuesday | [When given two points and 2 bearings find a third point |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/bearings-7867/lessons/when-given-two-points-and-2-bearings-find-a-third-point-68v36e/overview) | [Back bearings |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/bearings-7867/lessons/back-bearings-cnk3jd/overview)  |
| Wednesday | [Faces, Edges and Vertices |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/views-and-maps-e7a4/lessons/faces-edges-and-vertices-cnjkad/overview)  | [Draw plan views and elevations of 3D shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/views-and-maps-e7a4/lessons/draw-plan-views-and-elevations-of-3d-shapes-ctjk2c/overview)  |
| Thursday | [Sketch 3D shapes when given plan and elevation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/views-and-maps-e7a4/lessons/sketch-3d-shapes-when-given-plan-and-elevation-6rr3ad/overview)  | [Use a map scale to work out a length and vice versa |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/views-and-maps-e7a4/lessons/use-a-map-scale-to-work-out-a-length-and-vice-versa-6wr62d/overview)  |
| Friday | [Translate and describe an object given a horizontal or vertical instruction |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/translate-and-vectors-1-4275/lessons/translate-and-describe-an-object-given-a-horizontal-or-vertical-instruction-6hgket/overview)  | [Translate and describe a 2D vector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/translate-and-vectors-1-4275/lessons/translate-and-describe-a-2d-vector-65k3cr/overview)  |
| 31/03/25 | Monday | Straight line graphs | [Draw and recognise graphs of the form y = kx |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/simple-graphs-47e3/lessons/draw-and-recognise-graphs-of-the-form-y-kx-cmw66e/overview)  | [Draw graphs of the form y=mx+c by using a table of values |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/simple-graphs-47e3/lessons/draw-graphs-of-the-form-ymxc-by-using-a-table-of-values-cnk68c/overview)  |
| Tuesday | [Draw graphs of the form ax+by = c by using a table of values |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/simple-graphs-47e3/lessons/draw-graphs-of-the-form-axby-c-by-using-a-table-of-values-71k68t/overview)  | [Use graphs to solve simple equations including simultaneous equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/simple-graphs-47e3/lessons/use-graphs-to-solve-simple-equations-including-simultaneous-equations-6rv3gd/overview)  |
| Wednesday | [Find the gradient of a line |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/straight-line-graphs-y-mx-c-2e9f/lessons/find-the-gradient-of-a-line-60wkjd/overview)  | [Find the equation of a straight line using y=mx+c |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/straight-line-graphs-y-mx-c-2e9f/lessons/find-the-equation-of-a-straight-line-using-ymxc-60u3gr/overview)  |
| Thursday | [Find the intercept and gradient from a line given in any form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/straight-line-graphs-y-mx-c-2e9f/lessons/find-the-intercept-and-gradient-from-a-line-given-in-any-form-6mrk8c/overview)  | [Using gradient to solve problems with parallel lines |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/straight-line-graphs-y-mx-c-2e9f/lessons/using-gradient-to-solve-problems-with-parallel-lines-cgr36c/overview)  |
| Friday | [Write the equation of a straight line if parallel to a line and passing through (0,n) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/straight-line-graphs-2-parallel-lines-f1ea/lessons/write-the-equation-of-a-straight-line-if-parallel-to-a-line-and-passing-through-0n-6th62t/overview)  | [Write the equation of a straight line if parallel to a line and passing through any point |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/straight-line-graphs-2-parallel-lines-f1ea/lessons/write-the-equation-of-a-straight-line-if-parallel-to-a-line-and-passing-through-any-point-60t6ce/overview)  |
| 07/04/25 | Monday | [Find the equation of a straight line through two given points |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/straight-line-graphs-2-parallel-lines-f1ea/lessons/find-the-equation-of-a-straight-line-through-two-given-points-c5gkjd/overview)  | [Interpret gradient and intercept on real life graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/straight-line-graphs-2-parallel-lines-f1ea/lessons/interpret-gradient-and-intercept-on-real-life-graphs-6xgkjd/overview)  |
| Tuesday | [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)  |
| Wednesday | [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)  |
| Thursday | [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)  |
| Friday | [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)  |