**Walton High School Hub Curriculum** 

**Year 11 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 | Direct and inverse proportion | [Simple direct proportion y = kx |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/simple-direct-proportion-y-kx-6ctket/overview) | [Other direct proportion relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/other-direct-proportion-relationships-6gv62e/overview) |
| Tuesday | [Inverse proportion |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/inverse-proportion-64upcr/overview) | [Further proportionality |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/further-proportionality-6wup4c/overview) |
| Wednesday | [Simple direct proportion y = kx |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/simple-direct-proportion-y-kx-6ctket/overview) | [Other direct proportion relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/other-direct-proportion-relationships-6gv62e/overview) |
| Thursday | [Inverse proportion |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/inverse-proportion-64upcr/overview) | [Further proportionality |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/further-proportionality-6wup4c/overview) |
| Friday | [Simple direct proportion y = kx |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/simple-direct-proportion-y-kx-6ctket/overview) | [Other direct proportion relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/other-direct-proportion-relationships-6gv62e/overview) |
| 03/03/25 | Monday | [Inverse proportion |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/inverse-proportion-64upcr/overview) | [Further proportionality |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-higher-l/units/direct-and-inverse-proportion-e702/lessons/further-proportionality-6wup4c/overview) |
| Tuesday | [Enlargement by an integer scale factor |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/similarity-and-enlargement-4648/lessons/enlargement-by-an-integer-scale-factor-64v62d/overview) | [Enlargement by a non-integer scale factor |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/similarity-and-enlargement-4648/lessons/enlargement-by-a-non-integer-scale-factor-68up6e/overview) |
| Wednesday | [Enlargement from a given point |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/similarity-and-enlargement-4648/lessons/enlargement-from-a-given-point-6tk38d/overview) | [Enlargement by a negative scale factor |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/similarity-and-enlargement-4648/lessons/enlargement-by-a-negative-scale-factor-64w68d/overview) |
| Thursday | [Describing enlargements |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/similarity-and-enlargement-4648/lessons/describing-enlargements-64rp4e/overview) | [Similar triangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/similarity-and-enlargement-4648/lessons/similar-triangles-65h6ac/overview) |
| Friday | [Nested triangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/similarity-and-enlargement-4648/lessons/nested-triangles-68wk0t/overview) | [Area of similar shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/similarity-and-enlargement-4648/lessons/area-of-similar-shapes-74w32t/overview) |
| 10/03/25 | Monday | Transformation | [Reflecting in a given horizontal or vertical line (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/reflection-7c02/lessons/reflecting-in-a-given-horizontal-or-vertical-line-part-1-6mv64d/overview) | [Reflecting in a given horizontal or vertical line (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/reflection-7c02/lessons/reflecting-in-a-given-horizontal-or-vertical-line-part-2-cgvkad/overview) |
| Tuesday | [Reflecting in a given diagonal line (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/reflection-7c02/lessons/reflecting-in-a-given-diagonal-line-part-1-c4w32t/overview) | [Reflecting in a given diagonal line (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/reflection-7c02/lessons/reflecting-in-a-given-diagonal-line-part-2-c9k64r/overview) |
| Wednesday | [Rotate an Object around a Given Point |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/rotation-and-enlargement-ddac/lessons/rotate-an-object-around-a-given-point-71j36c/overview) | [Rotate an Object around a Given Coordinate |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/rotation-and-enlargement-ddac/lessons/rotate-an-object-around-a-given-coordinate-6gr66r/overview) |
| Thursday | [Enlarge an Object with a Positive Scale Factor |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/rotation-and-enlargement-ddac/lessons/enlarge-an-object-with-a-positive-scale-factor-c4v3gc/overview) | [Enlarge an Object with a Positive Scale Factor from a Given Coordinate |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/rotation-and-enlargement-ddac/lessons/enlarge-an-object-with-a-positive-scale-factor-from-a-given-coordinate-6rup8d/overview) |
| Friday | [Checking and securing understanding of congruence and similarity |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/checking-and-securing-understanding-of-congruence-and-similarity/overview) | [Checking and securing understanding of rotation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/checking-and-securing-understanding-of-rotation/overview) |
| 17/03/25 | Monday | [Checking and securing understanding of translation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/checking-and-securing-understanding-of-translation/overview) | [Checking and securing understanding of reflection |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/checking-and-securing-understanding-of-reflection/overview) |
| Tuesday | [Checking and securing understanding of enlargement with positive integer scale factors |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/checking-and-securing-understanding-of-enlargement-with-positive-integer-scale-factors/overview) | [Checking and securing understanding of enlargement with positive fractional scale factors |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/checking-and-securing-understanding-of-enlargement-with-positive-fractional-scale-factors/overview) |
| Wednesday | [Multiple transformations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/multiple-transformations/overview) | [Identifying multiple transformations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/identifying-multiple-transformations/overview) |
| Thursday | [Problem solving with further transformations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/further-transformations/lessons/problem-solving-with-further-transformations/overview) | [Rotate an Object around a Given Point |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/rotation-and-enlargement-ddac/lessons/rotate-an-object-around-a-given-point-71j36c/overview) |
| Friday | [Rotate an Object around a Given Coordinate |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/rotation-and-enlargement-ddac/lessons/rotate-an-object-around-a-given-coordinate-6gr66r/overview) | [Enlarge an Object with a Positive Scale Factor |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/rotation-and-enlargement-ddac/lessons/enlarge-an-object-with-a-positive-scale-factor-c4v3gc/overview) |
| 24/03/25 | Monday | Vector geometry | [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) |
| Tuesday | [Represent a column vector as a diagram and using notation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/translate-and-vectors-1-4275/lessons/represent-a-column-vector-as-a-diagram-and-using-notation-c8vp4t/overview) | [Write a column vector from a diagram |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/translate-and-vectors-1-4275/lessons/write-a-column-vector-from-a-diagram-74tkce/overview) |
| Wednesday | [Add two column vectors (including diagrams) to give a resultant vector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/vectors-2-429e/lessons/add-two-column-vectors-including-diagrams-to-give-a-resultant-vector-6xgp2d/overview) | [Add and subtract two column vectors to give a resultant vector (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/vectors-2-429e/lessons/add-and-subtract-two-column-vectors-to-give-a-resultant-vector-part-1-chjp2t/overview) |
| Thursday | [Multiply a vector by a scalar |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/vectors-2-429e/lessons/multiply-a-vector-by-a-scalar-64u3cr/overview) | [Add and subtract two column vectors to give a resultant vector (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/vectors-2-429e/lessons/add-and-subtract-two-column-vectors-to-give-a-resultant-vector-part-2-61k38e/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 | [Represent a column vector as a diagram and using notation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/translate-and-vectors-1-4275/lessons/represent-a-column-vector-as-a-diagram-and-using-notation-c8vp4t/overview) | [Write a column vector from a diagram |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/translate-and-vectors-1-4275/lessons/write-a-column-vector-from-a-diagram-74tkce/overview) |
| Tuesday | [Add two column vectors (including diagrams) to give a resultant vector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/vectors-2-429e/lessons/add-two-column-vectors-including-diagrams-to-give-a-resultant-vector-6xgp2d/overview) | [Add and subtract two column vectors to give a resultant vector (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/vectors-2-429e/lessons/add-and-subtract-two-column-vectors-to-give-a-resultant-vector-part-1-chjp2t/overview) |
| Wednesday | [Multiply a vector by a scalar |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/vectors-2-429e/lessons/multiply-a-vector-by-a-scalar-64u3cr/overview) | [Add and subtract two column vectors to give a resultant vector (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/vectors-2-429e/lessons/add-and-subtract-two-column-vectors-to-give-a-resultant-vector-part-2-61k38e/overview) |
| Thursday | [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) |
| Friday | [Represent a column vector as a diagram and using notation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/translate-and-vectors-1-4275/lessons/represent-a-column-vector-as-a-diagram-and-using-notation-c8vp4t/overview) | [Write a column vector from a diagram |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/translate-and-vectors-1-4275/lessons/write-a-column-vector-from-a-diagram-74tkce/overview) |
| 07/04/25 | Monday | Arcs and Sectors | [Find the circumference of a circle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/circles-c694/lessons/find-the-circumference-of-a-circle-c4tp6e/overview) | [Find the Diameter or Radius when given the Circumference |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/circles-c694/lessons/find-the-diameter-or-radius-when-given-the-circumference-68ukcc/overview) |
| Tuesday | [Find the Area of a Circle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/circles-c694/lessons/find-the-area-of-a-circle-60w36c/overview) | [Find the radius and diameter when given the area |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/circles-c694/lessons/find-the-radius-and-diameter-when-given-the-area-6rv66c/overview) |
| Wednesday | [Know the parts of a circle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/parts-of-circles-1-semi-and-quarter-circles-b052/lessons/know-the-parts-of-a-circle-60u3cc/overview) | [Find the area of a semicircle and quarter circle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/parts-of-circles-1-semi-and-quarter-circles-b052/lessons/find-the-area-of-a-semicircle-and-quarter-circle-ccrp2t/overview) |
| Thursday | [Find the area of a sector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/parts-of-circles-1-semi-and-quarter-circles-b052/lessons/find-the-area-of-a-sector-c9j66t/overview) | [Find the radius or diameter given the area of a sector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/parts-of-circles-1-semi-and-quarter-circles-b052/lessons/find-the-radius-or-diameter-given-the-area-of-a-sector-crupad/overview) |
| Friday | [Find the length of an arc on a semicircle and quarter circle and the perimeter of a semicircle and quarter circle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/parts-of-circles-2-arcs-and-sectors-b105/lessons/find-the-length-of-an-arc-on-a-semicircle-and-quarter-circle-and-the-perimeter-of-a-semicircle-and-quarter-circle-6mup4d/overview) | [Find the length of an arc and the perimeter of a sector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/parts-of-circles-2-arcs-and-sectors-b105/lessons/find-the-length-of-an-arc-and-the-perimeter-of-a-sector-6xj34c/overview) |