**Walton High School Hub Curriculum** 

**Year 8 – Maths**

**Half term 2 (November 2024 – December 2024)**

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 |
| 04/11/24 | Monday | Standard Form | [Indices and Radicals |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/indices-and-radicals-c5h6ad/overview)  | [Indices and power of 0 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/indices-and-power-of-0-c8w30c/overview)  |
| Tuesday | [Expressing powers of in different bases |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/expressing-powers-of-in-different-bases-c8rk4r/overview)  | [Laws of indices |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/laws-of-indices-6mr3je/overview)  |
| Wednesday | [Fractional Indices (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/fractional-indices-part-1-c5hp8t/overview)  | [Fractional Indices (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/fractional-indices-part-2-6mwp8c/overview)  |
| Thursday  | [Negative indices |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/negative-indices-cgvpac/overview)  | [Powers of 10 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/powers-of-10-c9hp6c/overview)  |
| Friday | [Sorting large numbers |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/sorting-large-numbers-6nk3gc/overview)  | [Multiplying and dividing in standard form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/multiplying-and-dividing-in-standard-form-6wv3jc/overview)  |
| 11/11/24 | Monday  | [Addition and Subtraction in standard form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/addition-and-subtraction-in-standard-form-61j34c/overview)  | [Mixed problems with standard form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/mixed-problems-with-standard-form-crw3cd/overview)  |
| Tuesday  | [Checking and securing understanding of multiples of 10 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/standard-form/lessons/checking-and-securing-understanding-of-multiples-of-10/overview)  | [Checking and further securing understanding of the commutative law |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/standard-form/lessons/checking-and-further-securing-understanding-of-the-commutative-law/overview)  |
| Wednesday  | [Multiples of 10 involving negative exponents |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/standard-form/lessons/multiples-of-10-involving-negative-exponents/overview)  | [Writing large numbers in standard form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/standard-form/lessons/writing-large-numbers-in-standard-form/overview)  |
| Thursday  | [Writing small numbers in standard form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/standard-form/lessons/writing-small-numbers-in-standard-form/overview)  | [Ordering numbers in standard form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/standard-form/lessons/ordering-numbers-in-standard-form/overview)  |
| Friday | [Problem solving with standard form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/standard-form/lessons/problem-solving-with-standard-form/overview)  | [Checking and further securing understanding of the commutative law |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/standard-form/lessons/checking-and-further-securing-understanding-of-the-commutative-law/overview)  |
| 18/11/24 | Monday | [Indices and Radicals |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/indices-and-radicals-c5h6ad/overview)  | [Indices and power of 0 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/indices-and-power-of-0-c8w30c/overview)  |
| Tuesday | [Expressing powers of in different bases |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/expressing-powers-of-in-different-bases-c8rk4r/overview)  | [Laws of indices |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/laws-of-indices-6mr3je/overview)  |
| Wednesday | [Fractional Indices (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/fractional-indices-part-1-c5hp8t/overview)  | [Fractional Indices (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/fractional-indices-part-2-6mwp8c/overview)  |
| Thursday | [Negative indices |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/negative-indices-cgvpac/overview)  | [Powers of 10 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/powers-of-10-c9hp6c/overview)  |
| Friday | [Sorting large numbers |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/sorting-large-numbers-6nk3gc/overview)  | [Multiplying and dividing in standard form |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/indices-and-standard-form-7a54/lessons/multiplying-and-dividing-in-standard-form-6wv3jc/overview)  |
| 25/11/24 | Monday | Angles | [Find the value of missing angles |](https://www.thenational.academy/pupils/programmes/maths-primary-year-6-l/units/missing-angles-and-lengths-84fd/lessons/find-the-value-of-missing-angles-6cr3je/overview)  | [Compare and classify triangles |](https://www.thenational.academy/pupils/programmes/maths-primary-year-6-l/units/missing-angles-and-lengths-84fd/lessons/compare-and-classify-triangles-6mu6at/overview)  |
| Tuesday | [Compare and classify quadrilaterals |](https://www.thenational.academy/pupils/programmes/maths-primary-year-6-l/units/missing-angles-and-lengths-84fd/lessons/compare-and-classify-quadrilaterals-71h38c/overview)  | [Find unknown angles in triangles |](https://www.thenational.academy/pupils/programmes/maths-primary-year-6-l/units/missing-angles-and-lengths-84fd/lessons/find-unknown-angles-in-triangles-6tgkcd/overview)  |
| Wednesday | [Find the value of missing angles in quadrilaterals |](https://www.thenational.academy/pupils/programmes/maths-primary-year-6-l/units/missing-angles-and-lengths-84fd/lessons/find-the-value-of-missing-angles-in-quadrilaterals-cdgk0r/overview)  | [Describing and comparing angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/angles-3770/lessons/describing-and-comparing-angles-6dhp2c/overview)  |
| Thursday | [Measuring and drawing angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/angles-3770/lessons/measuring-and-drawing-angles-cnk38d/overview)  | [Partitioning angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/angles-3770/lessons/partitioning-angles-71jkat/overview)  |
| Friday | [Finding unknown angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/angles-3770/lessons/finding-unknown-angles-6gt3ce/overview)  | [Exploring intersections |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/angles-3770/lessons/exploring-intersections-71gkee/overview)  |
| 02/12/24 | Monday  | [Transversal angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/angles-3770/lessons/transversal-angles-crw38t/overview)  | [Alternate angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/angles-3770/lessons/alternate-angles-c4t3cd/overview)  |
| Tuesday | [Corresponding and allied angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/angles-3770/lessons/corresponding-and-allied-angles-6tj68e/overview)  | [Checking understanding of angles from KS2 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/checking-understanding-of-angles-from-ks2/overview)  |
| Wednesday | [Securing understanding of angles from KS2 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/securing-understanding-of-angles-from-ks2/overview)  | [Formalising understanding of triangles from KS2 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/formalising-understanding-of-triangles-from-ks2/overview)  |
| Thursday | [Formal angle notation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/formal-angle-notation/overview)  | [Corresponding angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/corresponding-angles/overview)  |
| Friday | [Alternate angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/alternate-angles/overview)  | [Co-interior angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/co-interior-angles/overview)  |
| 09/12/24 | Monday | [Angles on parallel lines traversed by a straight line |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/angles-on-parallel-lines-traversed-by-a-straight-line/overview)  | [The sum of the interior angles of any triangle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/the-sum-of-the-interior-angles-of-any-triangle/overview)  |
| Tuesday | [Using the sum of the interior angles of a triangle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/using-the-sum-of-the-interior-angles-of-a-triangle/overview)  | [Interior angles of a polygon |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/interior-angles-of-a-polygon/overview)  |
| Wednesday | [Deriving the sum of interior angles in multiple ways |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/deriving-the-sum-of-interior-angles-in-multiple-ways/overview)  | [Exterior angles of polygons |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/exterior-angles-of-polygons/overview)  |
| Thursday | [Interior and exterior angles of regular polygons |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/interior-and-exterior-angles-of-regular-polygons/overview)  | [Missing angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/missing-angles/overview)  |
| Friday | [Problem solving with polygons |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/geometrical-properties-polygons/lessons/problem-solving-with-polygons/overview)  | [Angles on parallel lines review: Revisiting intersections |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-and-parallel-lines-review-db9e/lessons/angles-on-parallel-lines-review-revisiting-intersections-74wkec/overview)  |
| 16/12/24 | Monday | [Angles on parallel lines review: Revisiting transversal angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-and-parallel-lines-review-db9e/lessons/angles-on-parallel-lines-review-revisiting-transversal-angles-ccwk4t/overview)  | [Angles on parallel lines review: Revisiting alternate and corresponding angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-and-parallel-lines-review-db9e/lessons/angles-on-parallel-lines-review-revisiting-alternate-and-corresponding-angles-c5j68r/overview)  |
| Tuesday | [Angles on parallel lines review: Finding missing angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-and-parallel-lines-review-db9e/lessons/angles-on-parallel-lines-review-finding-missing-angles-61h3jd/overview) | [Interior angles in a triangle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-in-polygons-de90/lessons/interior-angles-in-a-triangle-68uk0t/overview)  |
| Wednesday | [Categorising and defining polygons |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-in-polygons-de90/lessons/categorising-and-defining-polygons-cmu66e/overview)  | [Generalising angles in polygons (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-in-polygons-de90/lessons/generalising-angles-in-polygons-part-1-70rkar/overview)  |
| Thursday | [Generalising angles in polygons (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-in-polygons-de90/lessons/generalising-angles-in-polygons-part-2-68u6ae/overview)  | [Finding missing angles in polygons |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-in-polygons-de90/lessons/finding-missing-angles-in-polygons-6wvp8r/overview)  |
| Friday | [Exterior angles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-in-polygons-de90/lessons/exterior-angles-c9jkce/overview)  | [Angle notation and problem solving |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/angles-in-polygons-de90/lessons/angle-notation-and-problem-solving-6mrk8d/overview)  |