**Walton High School Hub Curriculum** 

**Year 9 – MATHS**

**Half term 1 (September 2025 – October 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 |
| 01/09/25 | Monday |  |  |  |
| Tuesday | Fractions | [Checking and securing understanding of fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/checking-and-securing-understanding-of-fractions/overview) | [The identity property of multiplication and division |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/the-identity-property-of-multiplication-and-division/overview) |
| Wednesday | [Checking and securing converting improper fractions to mixed numbers |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/checking-and-securing-converting-improper-fractions-to-mixed-numbers/overview) | [Checking and securing converting mixed numbers to improper fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/checking-and-securing-converting-mixed-numbers-to-improper-fractions/overview) |
| Thursday | [Converting fractions to terminating decimals |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/converting-fractions-to-terminating-decimals/overview) | [Converting fractions to recurring decimals |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/converting-fractions-to-recurring-decimals/overview) |
| Friday | [Simplifying fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/simplifying-fractions/overview) | [Ordering fractions by converting |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/ordering-fractions-by-converting/overview) |
| 08/09/25 | Monday | [Ordering fractions by way of a common denominator |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/comparing-and-ordering-fractions-and-decimals-positive-and-negative/lessons/ordering-fractions-by-way-of-a-common-denominator/overview) | [Checking understanding of addition and subtraction with fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/arithmetic-procedures-with-fractions/lessons/checking-understanding-of-addition-and-subtraction-with-fractions/overview) |
| Tuesday | [Securing understanding of addition and subtraction with fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/arithmetic-procedures-with-fractions/lessons/securing-understanding-of-addition-and-subtraction-with-fractions/overview) | [Checking understanding of multiplication with fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/arithmetic-procedures-with-fractions/lessons/checking-understanding-of-multiplication-with-fractions/overview) |
| Wednesday | [Securing understanding of multiplication with fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/arithmetic-procedures-with-fractions/lessons/securing-understanding-of-multiplication-with-fractions/overview) | [Securing understanding of multiplication with fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/arithmetic-procedures-with-fractions/lessons/securing-understanding-of-multiplication-with-fractions/overview) |
| Thursday | [Representing fractions, decimals, and percentages |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/fdp-review-9-1a-1278/lessons/representing-fractions-decimals-and-percentages-6rtk4d/overview) | [Representing recurring decimals |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/fdp-review-9-1a-1278/lessons/representing-recurring-decimals-60u3gt/overview) |
| Friday | [Reviewing addition and subtraction |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/fdp-review-9-1a-1278/lessons/reviewing-addition-and-subtraction-cmw3jc/overview) | [Reviewing multiplication and division |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/fdp-review-9-1a-1278/lessons/reviewing-multiplication-and-division-c8u36t/overview) |
| 15/09/25 | Monday | Ratio | [Groups |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/ratio-e0c7/lessons/groups-c8wk2t/overview) | [In the same ratio |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/ratio-e0c7/lessons/in-the-same-ratio-chgked/overview) |
| Tuesday | [Equivalent ratios |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/ratio-e0c7/lessons/equivalent-ratios-71k32t/overview) | [The rule of four |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/ratio-e0c7/lessons/the-rule-of-four-cgu64r/overview) |
| Wednesday | [Ratio and proportion in geometry I |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/ratio-e0c7/lessons/ratio-and-proportion-in-geometry-i-cgrk2d/overview) | [Ratio and proportion in geometry II |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/ratio-e0c7/lessons/ratio-and-proportion-in-geometry-ii-6wv6ac/overview) |
| Thursday | [Dividing into a ratio I |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/ratio-e0c7/lessons/dividing-into-a-ratio-i-65j6cc/overview) | [Dividing into a ratio II |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/ratio-e0c7/lessons/dividing-into-a-ratio-ii-cdhpcd/overview) |
| Friday | [Representing ratio |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/ratio-review-9-7a-56c5/lessons/representing-ratio-6djp4t/overview) | [Ratio and proportion in geometry |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/ratio-review-9-7a-56c5/lessons/ratio-and-proportion-in-geometry-74rk8d/overview) |
| 22/09/25 | Monday | [Dividing into a ratio |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/ratio-review-9-7a-56c5/lessons/dividing-into-a-ratio-c4tk8e/overview) | [Ratio problems |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/ratio-review-9-7a-56c5/lessons/ratio-problems-74v38c/overview) |
| Tuesday | [Simplifying ratios |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/ratio-1-a08e/lessons/simplifying-ratios-69jk8t/overview) | [Divide a quantity in a given ratio |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/ratio-1-a08e/lessons/divide-a-quantity-in-a-given-ratio-c9jkgd/overview) |
| Wednesday | [Find a part given a part |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/ratio-1-a08e/lessons/find-a-part-given-a-part-c4t3jt/overview) | [Find the total or difference given a part |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/ratio-1-a08e/lessons/find-the-total-or-difference-given-a-part-74v66e/overview) |
| Thursday | [Ratio and fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/ratio-1-2-7ec0/lessons/ratio-and-fractions-6xjkce/overview) | [Compare the cost of two items using the unitary method |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/ratio-1-2-7ec0/lessons/compare-the-cost-of-two-items-using-the-unitary-method-c8uk4r/overview) |
| Friday | [Using direct proportion graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/ratio-1-2-7ec0/lessons/using-direct-proportion-graphs-6cv3ed/overview) | [Proportion problems |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/ratio-1-2-7ec0/lessons/proportion-problems-cdj3ed/overview) |
| 29/09/25 | Monday | Statistical averages and Diagrams | [Venn diagrams |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/sets-venn-and-sample-space-diagrams-f890/lessons/venn-diagrams-6ctked/overview) | [Set notation 1 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/sets-venn-and-sample-space-diagrams-f890/lessons/set-notation-1-c5j32d/overview) |
| Tuesday | [Overlapping circles (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/sets-venn-and-sample-space-diagrams-f890/lessons/overlapping-circles-part-1-6rrkat/overview) | [Overlapping circles (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/sets-venn-and-sample-space-diagrams-f890/lessons/overlapping-circles-part-2-6mrk0d/overview) |
| Wednesday | [Venn Diagram and probability |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/sets-venn-and-sample-space-diagrams-f890/lessons/venn-diagram-and-probability-cgwp8e/overview) | [Drawing Venn Diagrams |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/sets-venn-and-sample-space-diagrams-f890/lessons/drawing-venn-diagrams-ccrk6c/overview) |
| Thursday | [Using Venn diagrams for conditional probability |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/sets-venn-and-sample-space-diagrams-f890/lessons/using-venn-diagrams-for-conditional-probability-68tkac/overview) | [Mixed questions with Venn Diagrams |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/sets-venn-and-sample-space-diagrams-f890/lessons/mixed-questions-with-venn-diagram-ctj66c/overview) |
| Friday | [Checking understanding of summary statistics from a list |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/comparisons-of-numerical-summaries-of-data/lessons/checking-understanding-of-summary-statistics-from-a-list/overview) | [Checking understanding of summary statistics from a frequency table |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/comparisons-of-numerical-summaries-of-data/lessons/checking-understanding-of-summary-statistics-from-a-frequency-table/overview) |
| 06/10/25 | Monday | [Calculating summary statistics from a grouped frequency table |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/comparisons-of-numerical-summaries-of-data/lessons/calculating-summary-statistics-from-a-grouped-frequency-table/overview) | [Calculating the mean from a grouped frequency table |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/comparisons-of-numerical-summaries-of-data/lessons/calculating-the-mean-from-a-grouped-frequency-table/overview) |
| Tuesday | [Constructing stem and leaf diagrams |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/comparisons-of-numerical-summaries-of-data/lessons/constructing-stem-and-leaf-diagrams/overview) | [Calculating summary statistics from stem and leaf diagrams |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/comparisons-of-numerical-summaries-of-data/lessons/calculating-summary-statistics-from-stem-and-leaf-diagrams/overview) |
| Wednesday | Congruence, similarity and parallel angles | [Checking understanding of similarity |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/checking-understanding-of-similarity/overview) | [Checking understanding of congruence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/checking-understanding-of-congruence/overview) |
| Thursday | [Similarity in shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/similarity-in-shapes/overview) | [Congruence in shapes |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/congruence-in-shapes/overview) |
| Friday | [Congruent, similar or neither |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/congruent-similar-or-neither/overview) | [Rotational symmetry |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/rotational-symmetry/overview) |
| 13/10/25 | Monday | [Congruent triangles (SSS) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/congruent-triangles-sss/overview) | [Congruent triangles (SAS) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/congruent-triangles-sas/overview) |
| Tuesday | [Congruent triangles (ASA and AAS) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/congruent-triangles-asa-and-aas/overview) | [Congruent triangles (RHS) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/congruent-triangles-rhs/overview) |
| Wednesday | [Applying the criteria for congruence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/applying-the-criteria-for-congruence/overview) | [Demonstrating Pythagoras' theorem |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/demonstrating-pythagoras-theorem/overview) |
| Thursday | [Demonstrating Pythagoras' theorem |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/demonstrating-pythagoras-theorem/overview) | [Length of a shorter side |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/length-of-a-shorter-side/overview) |
| Friday |  |  |
| 20/10/25 | Monday | [Determining which side |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/determining-which-side/overview) | [Pythagoras' theorem in context |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/pythagoras-theorem-in-context/overview) |
| Tuesday | [Problem solving with similarity and Pythagoras' theorem |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9/units/geometrical-properties-similarity-and-pythagoras-theorem/lessons/problem-solving-with-similarity-and-pythagoras-theorem/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) |
| Wednesday | [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) |
| Thursday | [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) | [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) |
| Friday | [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) | [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) |