**Walton High School Hub Curriculum** 

**Year 8 – 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.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Week commencing | Day | TOPIC | Lesson 1 | Lesson 2 |
| 01/09/25 | Monday |  |  |  |
| Tuesday | Ratio and Proportion | [Representing ratio |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/ratio-8-7a-8345/lessons/representing-ratio-68v3ed/overview)  | [Enlargement |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/ratio-8-7a-8345/lessons/enlargement-69h3er/overview)  |
| Wednesday | [Double number lines |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/ratio-8-7a-8345/lessons/double-number-lines-6hgk4e/overview)  | [The rule of four |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/ratio-8-7a-8345/lessons/the-rule-of-four-65jp6c/overview) |
| Thursday  | [Checking understanding of multiplicative relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/checking-understanding-of-multiplicative-relationships/overview)  | [Securing understanding of ratio as a multiplicative relationship |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/securing-understanding-of-ratio-as-a-multiplicative-relationship/overview)  |
| Friday | [Multiplicative relationships in context |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/multiplicative-relationships-in-context/overview)  | [Expressing multiplicative relationships as ratios and fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/expressing-multiplicative-relationships-as-ratios-and-fractions/overview)  |
| 08/09/25 | Monday  | [Multiplicative relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/multiplicative-relationships/overview)  | [Equivalent multiplicative relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/equivalent-multiplicative-relationships/overview)  |
| Tuesday  | [Representing a multiplicative relationship |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/representing-a-multiplicative-relationship/overview)  | [Ratio language and notation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/ratio-language-and-notation/overview)  |
| Wednesday  | [Checking and securing finding a fraction of a given amount |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/checking-and-securing-finding-a-fraction-of-a-given-amount/overview)  | [Deepening understanding with fractions of a given amount |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/deepening-understanding-with-fractions-of-a-given-amount/overview)  |
| Thursday  | [Expressing one number as a fraction of another |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/expressing-one-number-as-a-fraction-of-another/overview)  | [Dividing a quantity into a given ratio |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/dividing-a-quantity-into-a-given-ratio/overview)  |
| Friday | [Determining the whole |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/determining-the-whole/overview)  | [Determining the part |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/determining-the-part/overview)  |
| 15/09/25 | Monday | [Describing exchange rates with ratio |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/describing-exchange-rates-with-ratio/overview)  | [Describing more conversions with ratio |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/describing-more-conversions-with-ratio/overview)  |
| Tuesday | [Problem solving with fractions and ratios |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7/units/understanding-multiplicative-relationships-fractions-and-ratio/lessons/problem-solving-with-fractions-and-ratios/overview)  | [Looking at proportional relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/looking-at-proportional-relationships-6wr34r/overview) |
| Wednesday | [Direct proportion (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/direct-proportion-part-1-c8rk6c/overview) | [Looking at proportional relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/looking-at-proportional-relationships-6wr34r/overview) |
| Thursday | [Direct proportion (Part 3) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/direct-proportion-part-3-75gkjd/overview) | [Direct proportion (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/direct-proportion-part-2-61jkac/overview) |
| Friday | [The constant of proportionality |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/the-constant-of-proportionality-c8tk2r/overview) | [Graphs of proportional relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/graphs-of-proportional-relationships-cmvkgr/overview) |
| 22/09/25 | Monday | [Inverse proportion](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/inverse-proportion-74u38t/overview)  | [Proportion in context |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/proportion-in-context-c8w3jr/overview) |
| Tuesday | [Multiplicative relationships and direct proportion |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/multiplicative-relationships-and-direct-proportion/overview)  | [Inverse proportion in context |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/inverse-proportion-in-context-60w6ac/overview) |
| Wednesday | [Graphs of inverse proportion problems |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/graphs-of-inverse-proportion-problems-cmrkgc/overview) | [Direct or inverse proportion? |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/direct-and-indirect-proportion-e7d4/lessons/direct-or-inverse-proportion-crwkec/overview) |
| Thursday | [Problem solving with percentages and proportionality |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/problem-solving-with-percentages-and-proportionality/overview)  | [Graphing direct proportion |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/graphing-direct-proportion/overview) |
| Friday | [Direct proportion in context |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/direct-proportion-in-context/overview)  | [Inverse proportion in context |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/inverse-proportion-in-context/overview)  |
| 29/09/25 | Monday  | Expressions and formulae | [Checking understanding of algebraic notation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/checking-understanding-of-algebraic-notation/overview)  | [Securing understanding of equality |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/securing-understanding-of-equality/overview)  |
| Tuesday | [Different types of equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/different-types-of-equations/overview)  | [Equality in an equation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/equality-in-an-equation/overview)  |
| Wednesday | [Solution to an equation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solution-to-an-equation/overview)  | [Many equations, one solution |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/many-equations-one-solution/overview)  |
| Thursday | [Solving simple linear equations with an additive step |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solving-simple-linear-equations-with-an-additive-step/overview) | [Solving simple linear equations with a multiplicative step |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solving-simple-linear-equations-with-a-multiplicative-step/overview)  |
| Friday | [Preparing to solve two step linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/preparing-to-solve-two-step-linear-equations/overview)  | [Solving two step linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solving-two-step-linear-equations/overview)  |
| 06/10/25 | Monday | [Rearranging to solve linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/rearranging-to-solve-linear-equations/overview)  | [Solving complex linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solving-complex-linear-equations/overview)  |
| Tuesday | [Brackets in equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/brackets-in-equations/overview)  | [Solving linear equations where brackets are used |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solving-linear-equations-where-brackets-are-used/overview)  |
| Wednesday | [Solving complex linear equations involving brackets |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solving-complex-linear-equations-involving-brackets/overview)  | [Solving linear equations graphically using technology |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solving-linear-equations-graphically-using-technology/overview)  |
| Thursday | [Problem solving with linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/problem-solving-with-linear-equations/overview)  | [Gabriel's problem |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/famous-maths-problems-f0f6/lessons/gabriels-problem-chk64c/overview)  |
| Friday | [Goldbach's conjecture |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/famous-maths-problems-f0f6/lessons/goldbachs-conjecture-ccu6ad/overview)  | [The Happy Caterpillar Problem |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/famous-maths-problems-f0f6/lessons/happy-caterpillars-75hk6e/overview)  |
| 13/10/25 | Monday | [Solution to an equation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/solving-linear-equations/lessons/solution-to-an-equation/overview)  | [The Collatz conjecture |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/famous-maths-problems-f0f6/lessons/the-collatz-conjecture-60rk4c/overview)  |
| Tuesday | [Expressions and variables |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-equations-7d30/lessons/expressions-and-variables-ccrk6d/overview) | [Equations and identities |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-equations-7d30/lessons/equations-and-identities-c8vk6t/overview) |
| Wednesday | [Forming and solving linear equations 1 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-equations-7d30/lessons/forming-and-solving-linear-equations-1-ccvkcr/overview) | [Forming and solving linear equations (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-equations-7d30/lessons/forming-and-solving-linear-equations-part-2-70u68d/overview) |
| Thursday | [Equating linear expressions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-equations-7d30/lessons/equating-linear-expressions-6rr66c/overview) | [Solving further linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-equations-7d30/lessons/solving-further-linear-equations-6wr3gc/overview) |
| Friday |  |  |
| 20/10/25 | Monday | [Solving geometric problems using linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-equations-7d30/lessons/solving-geometric-problems-using-linear-equations-6xk66t/overview) | [Forming and solving equations from descriptions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-equations-7d30/lessons/forming-and-solving-equations-from-descriptions-70wkct/overview) |
| Tuesday | [Problem solving with simultaneous equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/problem-solving-with-simultaneous-equations/overview)  | [Inequalities and substitution (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-inequalities-d6cf/lessons/inequalities-and-substitution-part-1-74rkar/overview)  |
| Wednesday | [Inequalities and substitution (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-inequalities-d6cf/lessons/inequalities-and-substitution-part-2-75jp8d/overview)  | [Solving inequalities |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-inequalities-d6cf/lessons/solving-inequalities-71hk4e/overview)  |
| Thursday | [Forming and solving inequalities (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-inequalities-d6cf/lessons/forming-and-solving-inequalities-part-1-61jk6t/overview)  | [Forming and solving inequalities (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-inequalities-d6cf/lessons/forming-and-solving-inequalities-part-2-c4vket/overview) |
| Friday | [Manipulating inequalities |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-inequalities-d6cf/lessons/manipulating-inequalities-6nhkjt/overview)  | [Manipulating equations and inequalities |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8-l/units/forming-and-solving-inequalities-d6cf/lessons/manipulating-equations-and-inequalities-6hh62d/overview)  |