**Walton High School Hub Curriculum** 

**Year 8 – 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 | Collecting and representing data | [Checking understanding of pictograms and bar charts |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/checking-understanding-of-pictograms-and-bar-charts/overview)  | [Securing constructing pictograms |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/securing-constructing-pictograms/overview)  |
| Tuesday | [Securing constructing bar charts by hand |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/securing-constructing-bar-charts-by-hand/overview)  | [Constructing bar charts by utilising technology |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/constructing-bar-charts-by-utilising-technology/overview)  |
| Wednesday | [Constructing pie charts |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/constructing-pie-charts/overview)  | [Constructing pie charts by utilising technology |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/constructing-pie-charts-by-utilising-technology/overview)  |
| Thursday  | [Interpreting pie charts |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/interpreting-pie-charts/overview)  | [Constructing scatter graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/constructing-scatter-graphs/overview)  |
| Friday | [Constructing scatter graphs by utilising technology |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/constructing-scatter-graphs-by-utilising-technology/overview)  | [Interpreting scatter graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/interpreting-scatter-graphs/overview)  |
| 03/03/25 | Monday  | [Problem solving with graphical representations of data |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/graphical-representations-of-data/lessons/problem-solving-with-graphical-representations-of-data/overview) | [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)  |
| Tuesday  | [Calculating the mean |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/calculating-the-mean/overview)  | [Understanding the median |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/understanding-the-median/overview)  |
| Wednesday  | [Calculating the median |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/calculating-the-median/overview)  | [Understanding the mode |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/understanding-the-mode/overview)  |
| Thursday  | [Calculating the mode |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/calculating-the-mode/overview)  | [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)  |
| Friday | [Summarising data |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/summarising-data/overview)  | [Changing a data point | O](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/changing-a-data-point/overview) |
| 10/03/25 | Monday | [Evaluating the range |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/evaluating-the-range/overview)  | [Comparing statistical representations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/comparing-statistical-representations/overview)  |
| Tuesday | [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) | [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)  |
| Wednesday | [Correlation |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/numerical-summaries-of-data/lessons/correlation/overview) | [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)  |
| Thursday | [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)  | [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)  |
| Friday | [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)  | [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)  |
| 17/03/25 | Monday | Equations | [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)  |
| 24/03/25 | 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)  |
| 31/03/25 | 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 | [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)  |
| 07/04/25 | Monday | Algebraic manipulation | [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)  |