**Walton High School Hub Curriculum** 

**Year 9 – 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 | Percentages (not compound) | [Percentages on a number line |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/percentages-on-a-number-line-cru6at/overview)  | [Converting to decimals |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/converting-to-decimals-cmvp8d/overview)  |
| Tuesday | [Converting from fractions to percentages |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/converting-from-fractions-to-percentages-c4v3jd/overview)  | [Percentages of amount |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/percentages-of-amount-6nj68r/overview)  |
| Wednesday | [Percentages of amount (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/percentages-of-amount-part-2-c9j66c/overview)  | [Decimal Multipliers |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/decimal-multipliers-64w3et/overview)  |
| Thursday  | [Increase by a percentage |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/increase-by-a-percentage-69h68c/overview)  | [Decrease by a percentage |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/decrease-by-a-percentage-70ukjd/overview)  |
| Friday | [Checking understanding of percentages |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/checking-understanding-of-percentages/overview)  | [Securing understanding of percentages |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/securing-understanding-of-percentages/overview)  |
| 11/11/24 | Monday  | [Multiplicative relationships presented graphically |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/multiplicative-relationships-presented-graphically/overview)  | [Scaling diagrams for multiplicative relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/scaling-diagrams-for-multiplicative-relationships/overview)  |
| Tuesday  | [Expressing one number as a percentage of another |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/expressing-one-number-as-a-percentage-of-another/overview)  | [Finding a percentage with a multiplier |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/finding-a-percentage-with-a-multiplier/overview)  |
| Wednesday  | [Increase by a percentage |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/increase-by-a-percentage/overview)  | [Decrease by a percentage |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/decrease-by-a-percentage/overview)  |
| Thursday  | [Finding the original amount after an increase |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/finding-the-original-amount-after-an-increase/overview)  | [Finding the original amount after a decrease |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/finding-the-original-amount-after-a-decrease/overview)  |
| Friday | [Finding the percentage change |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-8/units/understanding-multiplicative-relationships-percentages-and-proportionality/lessons/finding-the-percentage-change/overview)  | [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)  |
| 18/11/24 | Monday | [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)  |
| Tuesday | [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)  |
| Wednesday | [Percentages on a number line |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/percentages-on-a-number-line-cru6at/overview)  | [Converting to decimals |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/converting-to-decimals-cmvp8d/overview)  |
| Thursday | [Converting from fractions to percentages |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/converting-from-fractions-to-percentages-c4v3jd/overview)  | [Percentages of amount |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/percentages-of-amount-6nj68r/overview)  |
| Friday | [Percentages of amount (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/percentages-of-amount-part-2-c9j66c/overview)  | [Decimal Multipliers |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-7-l/units/percentages-d6a2/lessons/decimal-multipliers-64w3et/overview)  |
| 25/11/24 | Monday | Basic algebraic manipulations, solving linear equations | [Checking and securing understanding of simplifying |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-simplifying/overview)  | [Checking and securing understanding of substitution |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-substitution/overview)  |
| Tuesday | [Further algebraic terminology |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/further-algebraic-terminology/overview)  | [Checking and securing understanding of expanding a single bracket |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-expanding-a-single-bracket/overview)  |
| Wednesday | [Checking and securing understanding of factorising |)](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-factorising/overview) | [Checking and securing understanding of forming linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-forming-linear-equations/overview)  |
| Thursday | [Checking and securing understanding of solving and interpreting linear equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-solving-and-interpreting-linear-equations/overview)  | [Checking and securing understanding of changing the subject |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-changing-the-subject/overview)  |
| Friday | [Checking and securing understanding of the product of two binomials |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-the-product-of-two-binomials/overview)  | [Checking and securing understanding of simplifying |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-simplifying/overview)  |
| 02/12/24 | Monday  | [Reviewing solving equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/reviewing-solving-equations-6mr30c/overview)  | [Equivalent equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/equivalent-equations-c5h3jd/overview)  |
| Tuesday | [Linear relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/linear-relationships-chj64c/overview)  | [Combining algebraic relationships |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/combining-algebraic-relationships-6ngkcc/overview)  |
| Wednesday | [Exploring expressions with two variables |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/exploring-expressions-with-two-variables-c5hk6r/overview)  | [Exploring systems of equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/exploring-systems-of-equations-chjp6e/overview)  |
| Thursday | [Solving simultaneous equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/solving-simultaneous-equations-6dgp4c/overview)  | [Writing simultaneous equations algebraically |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/writing-simultaneous-equations-algebraically-crrp8d/overview)  |
| Friday | [Checking the solution of simultaneous equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/checking-the-solution-of-simultaneous-equations-64w3ar/overview)  | [Solving a simultaneous equation algebraically |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/solving-a-simultaneous-equation-algebraically-6gukjd/overview)  |
| 09/12/24 | Monday | [Eliminating a variable |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/eliminating-a-variable-75j3jc/overview)  | [Manipulating systems of equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/manipulating-systems-of-equations-6nh3at/overview)  |
| Tuesday | [Solving word problems |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/solving-word-problems-c5j36e/overview)  | [Using substitution to solve simultaneous equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/using-substitution-to-solve-simultaneous-equations-6rtp2d/overview)  |
| Wednesday | [Substitution or Elimination |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/substitution-or-elimination-6ngk4d/overview)  | [Simultaneous equations by trial and error |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/solving-linear-simultaneous-equations-algebraically-21b2/lessons/simultaneous-equations-by-trial-and-error-cgt3et/overview)  |
| Thursday | [Checking and securing understanding of interpreting graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/checking-and-securing-understanding-of-interpreting-graphs/overview)  | [Forming simultaneous equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/forming-simultaneous-equations/overview)  |
| Friday | [Combining equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/combining-equations/overview)  | [Solving algebraic simultaneous equations by elimination |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/solving-algebraic-simultaneous-equations-by-elimination/overview)  |
| 16/12/24 | Monday | [Solving more complex simultaneous equations by elimination |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/solving-more-complex-simultaneous-equations-by-elimination/overview)  | [Solving simultaneous linear equations by substitution |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/solving-simultaneous-linear-equations-by-substitution/overview)  |
| Tuesday | [Solving simultaneous linear equations graphically |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/solving-simultaneous-linear-equations-graphically/overview)  | [Solving simultaneous equations via any method |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/solving-simultaneous-equations-via-any-method/overview)  |
| Wednesday | [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)  | [Checking and securing understanding of interpreting graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/checking-and-securing-understanding-of-interpreting-graphs/overview)  |
| Thursday | [Checking and securing understanding of simplifying |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-simplifying/overview)  | [Checking and securing understanding of substitution |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-substitution/overview)  |
| Friday | [Further algebraic terminology |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/further-algebraic-terminology/overview)  | [Checking and securing understanding of expanding a single bracket |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/algebraic-manipulation/lessons/checking-and-securing-understanding-of-expanding-a-single-bracket/overview)  |