**Walton High School Hub Curriculum** 

**Year 11 – MATHS FOUNDATION**

**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 | Linear expressions and equations |  |  |
| Tuesday | [Solving one-step equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/revise-solving-equations-7d3e/lessons/solving-one-step-equations-chk32d/overview)  | [Solving two-step equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/revise-solving-equations-7d3e/lessons/solving-two-step-equations-60tk8d/overview)  |
| Wednesday | [Solving equations with brackets |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/revise-solving-equations-7d3e/lessons/solving-equations-with-brackets-6rt3ec/overview)  | [Solving equations with unknown on both sides |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/revise-solving-equations-7d3e/lessons/solving-equations-with-unknown-on-both-sides-6xgkar/overview)  |
| Thursday  | [Solve equations that first involve simplification 2 (x + 3) + 5x = 15 |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/revise-solving-equations-7d3e/lessons/solve-equations-that-first-involve-simplification-2-x-3-5x-15-6gukae/overview)  | [Solve simple algebraic fractions (equal to a number) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/revise-solving-equations-7d3e/lessons/solve-simple-algebraic-fractions-equal-to-a-number-cmw66c/overview)  |
| Friday | [Solving algebraic fractions (equal to x + a) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/revise-solving-equations-7d3e/lessons/solving-algebraic-fractions-equal-to-x-a-70u30d/overview)  | [Solving algebraic fractions (one fraction equal to another) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/revise-solving-equations-7d3e/lessons/solving-algebraic-fractions-one-fraction-equal-to-another-6mu36e/overview)  |
| 08/09/25 | Monday  | [Solve linear simultaneous equations where one of the coefficients is equal |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/simultaneous-equations-linear-64b3/lessons/solve-linear-simultaneous-equations-where-one-of-the-coefficients-is-equal-75k64r/overview)  | [Solve linear simultaneous equations where you need to multiply one of the equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/simultaneous-equations-linear-64b3/lessons/solve-linear-simultaneous-equations-where-you-need-to-multiply-one-of-the-equations-6nh64t/overview)  |
| Tuesday  | [Solve linear simultaneous equations where you need to multiply both equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/simultaneous-equations-linear-64b3/lessons/solve-linear-simultaneous-equations-where-you-need-to-multiply-both-equations-c8u62d/overview)  | [Solve linear simultaneous equations where you need to first rearrange |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/simultaneous-equations-linear-64b3/lessons/solve-linear-simultaneous-equations-where-you-need-to-first-rearrange-6gv38c/overview)  |
| Wednesday  | [Checking and securing understanding of solving with simple algebraic fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation/units/algebraic-fractions/lessons/checking-and-securing-understanding-of-solving-with-simple-algebraic-fractions/overview)  | [Checking and securing understanding of changing the subject with simple algebraic fractions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation/units/algebraic-fractions/lessons/checking-and-securing-understanding-of-changing-the-subject-with-simple-algebraic-fractions/overview)  |
| Thursday  | [Forming simultaneous equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/forming-simultaneous-equations/overview)  | [Combining equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation/units/simultaneous-equations-2-variables/lessons/combining-equations/overview)  |
| Friday | [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)  | [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)  |
| 15/09/25 | Monday | Constructions | [Construct triangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/constructions-1f88/lessons/construct-triangles-6dk3ec/overview)  | [Construct a perpendicular bisector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/constructions-1f88/lessons/construct-a-perpendicular-bisector-74wked/overview)  |
| Tuesday | [Construct a perpendicular bisector from a point to a line |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/constructions-1f88/lessons/construct-a-perpendicular-bisector-from-a-point-to-a-line-crt3cc/overview)  | [Construct an angle bisector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/constructions-1f88/lessons/construct-an-angle-bisector-65jk4d/overview)  |
| Wednesday | [Loci around a point |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/loci-2192/lessons/loci-around-a-point-6xhkgd/overview)  | [Loci from a line |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/loci-2192/lessons/loci-from-a-line-6xj3cd/overview)  |
| Thursday | [Loci from a shape |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/loci-2192/lessons/loci-from-a-shape-cmt36e/overview)  | [Equidistant from two points |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/loci-2192/lessons/equidistant-from-two-points-6ru32d/overview)  |
| Friday | [Construct triangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/constructions-1f88/lessons/construct-triangles-6dk3ec/overview)  | [Construct a perpendicular bisector |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/constructions-1f88/lessons/construct-a-perpendicular-bisector-74wked/overview)  |
| 22/09/25 | Monday | Quadratics | [Factorising Single Brackets |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorising-single-bracket-9220/lessons/factorising-single-brackets-70rkgr/overview)  | [Factorising Single Brackets: Factor out a letter |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorising-single-bracket-9220/lessons/factorising-single-brackets-factor-out-a-letter-64wk0c/overview)  |
| Tuesday | [Factorise Single Brackets: Factor a number and a letter |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorising-single-bracket-9220/lessons/factorise-single-brackets-factor-a-number-and-a-letter-6crked/overview)  | [Factorising single brackets (more complicated expressions) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorising-single-bracket-9220/lessons/factorising-single-brackets-more-complicated-expressions-c8tk2t/overview)  |
| Wednesday | [Factorise a quadratic |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/factorise-a-quadratic-cgukjt/overview)  | [Factorise a quadratic (difference of two squares) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/factorise-a-quadratic-difference-of-two-squares-71jpac/overview)  |
| Thursday | [Solve a quadratic equation by factorising |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/solve-a-quadratic-equation-by-factorising-cnk36c/overview)  | [Simplifying an algebraic fraction by factorising |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/simplifying-an-algebraic-fraction-by-factorising-ccup8c/overview)  |
| Friday | [Factorise a quadratic |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/factorise-a-quadratic-cgukjt/overview)  | [Factorise a quadratic (difference of two squares) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/factorise-a-quadratic-difference-of-two-squares-71jpac/overview)  |
| 29/09/25 | Monday  | [Solve a quadratic equation by factorising |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/solve-a-quadratic-equation-by-factorising-cnk36c/overview)  | [Simplifying an algebraic fraction by factorising |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/simplifying-an-algebraic-fraction-by-factorising-ccup8c/overview)  |
| Tuesday | [Factorising Single Brackets |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorising-single-bracket-9220/lessons/factorising-single-brackets-70rkgr/overview)  | [Factorising Single Brackets: Factor out a letter |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorising-single-bracket-9220/lessons/factorising-single-brackets-factor-out-a-letter-64wk0c/overview)  |
| Wednesday | [Factorise Single Brackets: Factor a number and a letter |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorising-single-bracket-9220/lessons/factorise-single-brackets-factor-a-number-and-a-letter-6crked/overview)  | [Factorising single brackets (more complicated expressions) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorising-single-bracket-9220/lessons/factorising-single-brackets-more-complicated-expressions-c8tk2t/overview)  |
| Thursday | [Factorise a quadratic |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/factorise-a-quadratic-cgukjt/overview)  | [Factorise a quadratic (difference of two squares) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/factorise-a-quadratic-difference-of-two-squares-71jpac/overview)  |
| Friday | [Solve a quadratic equation by factorising |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/solve-a-quadratic-equation-by-factorising-cnk36c/overview)  | [Simplifying an algebraic fraction by factorising |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/simplifying-an-algebraic-fraction-by-factorising-ccup8c/overview)  |
| 06/10/25 | Monday | [Factorise a quadratic |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/factorise-a-quadratic-cgukjt/overview)  | [Factorise a quadratic (difference of two squares) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/factorise-a-quadratic-difference-of-two-squares-71jpac/overview)  |
| Tuesday | [Solve a quadratic equation by factorising |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/solve-a-quadratic-equation-by-factorising-cnk36c/overview)  | [Simplifying an algebraic fraction by factorising |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/factorise-and-solve-a-quadratic-a-1-876e/lessons/simplifying-an-algebraic-fraction-by-factorising-ccup8c/overview)  |
| Wednesday |  |  |
| Thursday | [Plot simple quadratic equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/quadratic-graphs-1-a-1-0f08/lessons/plot-simple-quadratic-equations-6gr32e/overview)  | [Plot other quadratic equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/quadratic-graphs-1-a-1-0f08/lessons/plot-other-quadratic-equations-65h3ed/overview)  |
| Friday | [Solving Quadratic Equations Graphically |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/quadratic-graphs-1-a-1-0f08/lessons/solving-quadratic-equations-graphically-6cr6ad/overview)  | [Identify and interpret roots, intercepts and turning points of quadratic graphs |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-foundation-l/units/quadratic-graphs-1-a-1-0f08/lessons/identify-and-interpret-roots-intercepts-and-turning-points-of-quadratic-graphs-c4uk8d/overview)  |
| 13/10/25 | Monday | [Draw quadratic graphs (a > 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/quadratic-graphs-2-a-1-aba2/lessons/draw-quadratic-graphs-a-greater-1-cgup2e/overview)  | [Draw quadratic graphs (negative x squared) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/quadratic-graphs-2-a-1-aba2/lessons/draw-quadratic-graphs-negative-x-squared-6hgpcr/overview)  |
| Tuesday | [Solve quadratic graphs = 0, = a and = ax + b |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/quadratic-graphs-2-a-1-aba2/lessons/solve-quadratic-graphs-0-a-and-ax-b-c5h3jd/overview)  | [Solving quadratic equations, given a different quadratic, using a sketch |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/quadratic-graphs-2-a-1-aba2/lessons/solving-quadratic-equations-given-a-different-quadratic-using-a-sketch-6tjk2d/overview)  |
| Wednesday | [Find the nth term of a quadratic sequence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/quadratic-sequences-ce05/lessons/find-the-nth-term-of-a-quadratic-sequence-6xgp8c/overview)  | [Solve simple quadratic inequalities |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/quadratic-sequences-ce05/lessons/solve-simple-quadratic-inequalities-c4vkjt/overview)  |
| Thursday | [Solve quadratic inequalities (a = 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/quadratic-sequences-ce05/lessons/solve-quadratic-inequalities-a-1-c9h3gr/overview)  | [Solve quadratic inequalities (a > 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-11-core-l/units/quadratic-sequences-ce05/lessons/solve-quadratic-inequalities-a-greater-1-60t3cc/overview)  |
| Friday |  |  |
| 20/10/25 | Monday | Pythagoras | [Know and Understand Pythagoras' theorem |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-1-e9da/lessons/know-and-understand-pythagoras-theorem-70vp4t/overview)  | [Find the length of the hypotenuse |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-1-e9da/lessons/find-the-length-of-the-hypotenuse-6xgk6t/overview)  |
| Tuesday | [Find the length of the shorter side |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-1-e9da/lessons/find-the-length-of-the-shorter-side-6ru6ce/overview)  | [Mixture of Finding a Missing Length |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-1-e9da/lessons/mixture-of-finding-a-missing-length-6mwp6r/overview)  |
| Wednesday | [Use Pythagoras' theorem to show that a triangle is right-angled |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-2-149e/lessons/use-pythagoras-theorem-to-show-that-a-triangle-is-right-angled-6hhk4r/overview)  | [Use Pythagoras' Theorem to find the length of a line segment |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-2-149e/lessons/use-pythagoras-theorem-to-find-the-length-of-a-line-segment-6muk6e/overview)  |
| Thursday | [Use Pythagoras' Theorem with Isosceles Triangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-2-149e/lessons/use-pythagoras-theorem-with-isosceles-triangles-60u6ad/overview)  | [Apply Pythagoras' Theorem to two triangles |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-2-149e/lessons/apply-pythagoras-theorem-to-two-triangles-6dh3ad/overview)  |
| Friday | [Know and Understand Pythagoras' theorem |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-1-e9da/lessons/know-and-understand-pythagoras-theorem-70vp4t/overview)  | [Find the length of the hypotenuse |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-foundation-l/units/pythagoras-theorem-1-e9da/lessons/find-the-length-of-the-hypotenuse-6xgk6t/overview)  |