**Walton High School Hub Curriculum** 

**Year 10 HIGHER – Maths**

**Half term 5 (April 2025 – May 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 |
| 28/04/25 | Monday | Quadratic Sequences | [Factorising quadratics (Part 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-expressions-9-9-4f5c/lessons/factorising-quadratics-part-1-c4v30e/overview) | [Factorising quadratics (Part 2) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-expressions-9-9-4f5c/lessons/factorising-quadratics-part-2-6cw6cr/overview) |
| Tuesday | [Sketching quadratics |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-expressions-9-9-4f5c/lessons/sketching-quadratics-cdh34c/overview) | [Interesting quadratic patterns |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-expressions-9-9-4f5c/lessons/interesting-quadratic-patterns-6rtk8d/overview) |
| Wednesday | [Forming quadratic equations I |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-equations-9-10-b645/lessons/forming-quadratic-equations-i-crtp4c/overview) | [Forming quadratic equations II |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-equations-9-10-b645/lessons/forming-quadratic-equations-ii-c4v3et/overview) |
| Thursday | [Solving pure quadratic equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-equations-9-10-b645/lessons/solving-pure-quadratic-equations-6xk68r/overview) | [Number of solutions |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-equations-9-10-b645/lessons/number-of-solutions-ctj62r/overview) |
| Friday | [Solving quadratic simultaneous equations graphically |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-equations-9-10-b645/lessons/solving-quadratic-simultaneous-equations-graphically-ccwpac/overview) | [Solving quadratic equations graphically |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-9-l/units/quadratic-equations-9-10-b645/lessons/solving-quadratic-equations-graphically-cthk6t/overview) |
| 05/05/25 | Monday |  |  |
| Tuesday | [Use formulae to solve quadratic equations (b is positive) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-higher-l/units/further-quadratic-equations-9336/lessons/use-formulae-to-solve-quadratic-equations-b-is-positive-68uk0t/overview) | [Use formulae to solve quadratic equations (any value) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-higher-l/units/further-quadratic-equations-9336/lessons/use-formulae-to-solve-quadratic-equations-any-value-70vkae/overview) |
| Wednesday | [Complete the square (a = 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-higher-l/units/further-quadratic-equations-9336/lessons/complete-the-square-a-1-69h3at/overview) | [Solve quadratic equations by completing the square |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-higher-l/units/further-quadratic-equations-9336/lessons/solve-quadratic-equations-by-completing-the-square-64rpct/overview) |
| Thursday | [Find the nth term of a quadratic sequence |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-higher-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-10-higher-l/units/quadratic-sequences-ce05/lessons/solve-simple-quadratic-inequalities-c4vkjt/overview) |
| Friday | [Solve quadratic inequalities (a = 1) |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-higher-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-10-higher-l/units/quadratic-sequences-ce05/lessons/solve-quadratic-inequalities-a-greater-1-60t3cc/overview) |
| 12/05/25 | Monday | Right angle geometry | [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) |
| 19/05/25 | Monday | [Know tangent, sine and cosine |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-1-0125/lessons/know-tangent-sine-and-cosine-6mvk4d/overview) | [Use tangent to find a length |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-1-0125/lessons/use-tangent-to-find-a-length-c5gkge/overview) |
| Tuesday | [Use sine and cosine to find a length |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-1-0125/lessons/use-sine-and-cosine-to-find-a-length-75hk0c/overview) | [Applying Trigonometry |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-1-0125/lessons/applying-trigonometry-6mup2c/overview) |
| Wednesday | [Use trigonometry to find the perpendicular height of a triangle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-2-5cbb/lessons/use-trigonometry-to-find-the-perpendicular-height-of-a-triangle-c4v3ee/overview) | [Solve basic trigonometry equations |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-2-5cbb/lessons/solve-basic-trigonometry-equations-6cup6r/overview) |
| Thursday | [Use inverse functions to find an angle |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-2-5cbb/lessons/use-inverse-functions-to-find-an-angle-61jp2d/overview) | [Solve problems mixing angles and sides |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-2-5cbb/lessons/solve-problems-mixing-angles-and-sides-6djk2e/overview) |
| Friday | [Know the trigonometry ratios for 0°, 30°,45°,60° and 90° |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-3-945e/lessons/know-the-trigonometry-ratios-for-0-30-45-60-and-90-6nk3ee/overview) | [Substitute the exact values to find a missing length |](https://www.thenational.academy/pupils/programmes/maths-secondary-year-10-core-l/units/trigonometry-3-945e/lessons/substitute-the-exact-values-to-find-a-missing-length-cgup4d/overview) |