



## Y11 Learning Journey. Subject: Maths

Exam Requirements: Your GCSE in Maths is structured, and examined, in the following way:

| Paper One:  | Paper Two:  | Paper Three:   |
|---|---|--|
| Non-Calculator, 1.5 hours.<br>Some topics are more likely to come up on non-calculator, but there is not list of topics specific to this paper. | Calculator, 1.5 hours.<br>This is no specific list of topics for this paper; it could be anything that was not on paper 1 | Calculator, 1.5 hours.<br>This is no specific list of topics for this paper; it could be anything that was not on paper 1 or paper 2. After paper 2, we will make a list of likely topics for paper 3. |

### Overview of the Year:

| Week Beginning         | The focus of your learning or revision this week: (the number in brackets is the grade level of the topic and helps you find it on <a href="#">Maths Genie • Learn GCSE Maths for Free</a> ) | Key assessment pieces or specific homework tasks (including deadlines of any coursework/NEAs)                    |
|------------------------|--|--|
| 1                      | Trigonometry (5); The sine rule (7);   | In your 4 <sup>th</sup> hour maths lesson (the one with a different teacher), you will be working on indices (4) |
| 2                      | the cosine rule (7), Finding the area of any triangle (7); 3d Pythagoras and trigonometry (7)  | 4 <sup>th</sup> hour: Indices (4)  |
| 3                      | Simplifying algebra (2); expanding and factorising (4); expanding and factorising quadratics (5); factorising harder quadratics (7)  | 4 <sup>th</sup> hour: Expand triple brackets (6)   |
| 4                      | Solving equations (3); forming and solving equations (4); changing the subject of a formula (5); quadratic formula (7)   | 4 <sup>th</sup> hour: Sequences (nth term) (4)   |
| 5                      | Rearranging harder formulae (7); simultaneous equations (5);   | 4 <sup>th</sup> hour: The nth term of a quadratic sequence (8/9)   |
| 6                      | Percentages (3); Percentage change (3); compound interest and depreciation (4); reverse percentages (5); repeated percentage change (6)  | 4 <sup>th</sup> hour: Iteration (7)  |
| 7                      | Drawing graphs (3); drawing quadratic graphs (5); drawing other graphs cubic/reciprocal (5); solving simultaneous equations graphically (5);   | Assessment: In class tests on the topics covered so far in year 11.  |
| <b>Half term</b>       |  |  |
| 1                      | gradient of a line (5); equation of a line (5); parallel and perpendicular lines (6); inequalities on graphs (6); trigonometric and exponential graphs (7)                                   | 4 <sup>th</sup> hour: <u>Inverse and composite functions (7)</u>   |
| 2                      | Similar shapes (lengths) (5); similar shapes (area and volume) (6)   | 4 <sup>th</sup> hour: <u>Inverse and composite functions (7)</u>   |
| 3                      | Volume of a prism (4); surface area (4); cylinders (4); spheres and cones (5);   | 4 <sup>th</sup> hour: <u>Plans and elevations (4)</u>  |
| 4                      | <b>Assessment Week One</b> Probability trees (5); Venn diagrams (5);   | 4 <sup>th</sup> hour: <u>Prime factors, HCF and LCM (4)</u>  |
| 5                      | cumulative frequency (6), box plots (6); histograms (7)  | 4 <sup>th</sup> hour: <u>Negative and fractional indices (6)</u>   |
| 6                      | Probability trees (5); Venn diagrams (5);  | 4 <sup>th</sup> hour: <u>Recurring decimals to fractions (6)</u>   |
| 7                      | Exam review  |  |
| <b>Christmas Break</b> |  |  |

|  |  |   |
|--|--|---|
| 1  | Revision of Indices (4); fractional and negative indices (6). Change of base | 4 <sup>th</sup> hour: Histograms (7)      |
| 2  | Angles (2); angles in parallel lines (4); angles in polygons (4);            | 4 <sup>th</sup> hour: Exam paper practice |
| 3  | Circle theorems (6);   | 4 <sup>th</sup> hour: Exam paper practice |
| 4  | Surds (7)  | 4 <sup>th</sup> hour: Exam paper practice |
| 5  | Bounds (7)   | 4 <sup>th</sup> hour: Exam paper practice |
| <b>Half Term</b>                           |  |   |
| 1  | Transformations (3); enlarging with negative scale factors (6)               | 4 <sup>th</sup> hour: Exam paper practice |
| 2  | Direct and inverse proportion (6)  | 4 <sup>th</sup> hour: Exam paper practice |
| 3  | <b>Assessment Week Two</b>   |   |
| 4  | Speed and density (5)  | 4 <sup>th</sup> hour: Exam paper practice |
| 5  | Standard form (5)  | 4 <sup>th</sup> hour: Exam paper practice |
| 6  | Revision (basic indices laws revision. Change of base)                       | 4 <sup>th</sup> hour: Exam paper practice |
| 7  | Revision (iteration and other 8/9 topics)                                    | 4 <sup>th</sup> hour: Exam paper practice |
| <b>Easter Break</b>                        |  |   |
| 1  | Revision   | 4 <sup>th</sup> hour: Exam paper practice |
| 2  | Revision   | 4 <sup>th</sup> hour: Exam paper practice |
| 3  | Revision   | 4 <sup>th</sup> hour: Exam paper practice |
| <b>Provisional start to the GCSE Exams</b> |  |   |

#### Exam Practice:

You can find past papers to help support your revision and develop your exam technique here:

[Maths Genie • Edexcel GCSE Maths Past Papers, Mark Schemes, Model Answers and Video Solutions](#)

**We do edexcel exams.**

#### Glossaries:

Vocabulary lists to support your revision can be found here:

[Maths Glossary \(studymaths.co.uk\)](#)

#### Revision Materials:

We advise that you use the following revision materials:

Revision guides [GCSE Maths | CGP Books](#)

Mainly, revise topics using [Maths Genie • Learn GCSE Maths for Free](#)

and exam papers using [Maths Genie • Edexcel GCSE Maths Past Papers, Mark Schemes, Model Answers and Video Solutions](#)

#### Advice and Guidance for Revision

In maths, you must do questions. And the best questions are found in past papers. Don't do too much note taking or highlighting; this gives you a feeling of understanding but you might struggle to do the questions on your own.

