

## Summer Assessment Topics for Revision

Year : 11

Subject: GCSE Mathematics Foundation

### In class assessment:

- Non-calculator topics such as fractions, decimals and percentages; standard form; ratio and proportion; written methods of calculation

### Topics to revise for April Assessment (Foundation Paper)

Unit	Topic Title
Algebra	<ul style="list-style-type: none"><li>- Factors and Multiples</li><li>- Laws of Indices</li><li>- Solving Equations</li><li>- Rearranging Formulae</li><li>- Simplifying Expressions by expanding brackets and factorising</li><li>- Inequalities</li></ul>
Statistics	<ul style="list-style-type: none"><li>- Bar charts</li><li>- Probability of Combined Events</li><li>- Averages and Range</li></ul>
Geometry and Measures	<ul style="list-style-type: none"><li>- Properties of a Circle</li><li>- Area and Perimeter</li><li>- Volume and Surface Area of 3D Shapes</li><li>- Angles and Polygons</li><li>- Speed, Distance, Time</li><li>- Pythagoras' Theorem</li><li>- Trigonometry</li></ul>
Number	<ul style="list-style-type: none"><li>- Fractions and Decimals</li><li>- Best Value</li><li>- Sequences</li></ul>

### Topics to revise for May Assessment (Foundation)

Unit	Topic Title
Algebra	<ul style="list-style-type: none"><li>- Simultaneous Equations</li><li>- Quadratic Equations</li></ul>
Statistics	<ul style="list-style-type: none"><li>- Scatter Graphs</li><li>- Comparing Distributions</li><li>- Real-life Graphs</li><li>- Correlation</li><li>- Probability</li></ul>
Geometry and Measures	<ul style="list-style-type: none"><li>- Angles and Polygons</li><li>- Congruence and Similarity</li><li>- Bearings</li><li>- Transformations</li><li>- Surface Area and Volume</li></ul>
Number	<ul style="list-style-type: none"><li>- Fractions, Decimals and Percentages</li><li>- Ratio and Proportion</li></ul>

	<ul style="list-style-type: none"><li>- Growth and Decay</li><li>- Indices and Standard Form</li></ul>
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**Revision Support:**

- Revision guide book given to students
- GCSE Pod
- GCSE Bitesize
- Oak Academy lessons
- Seneca
- MyMaths

GCSE Video guides and worksheets: [www.corbettmaths.com](http://www.corbettmaths.com)

## Summer Assessment Topics for Revision

Year : 11

Subject: GCSE Mathematics Higher

### In class assessment (Optional for subjects):

- Non-calculator topics such as fractions, decimals and percentages; standard form; ratio and proportion; written methods of calculation

### Topics to revise for April Assessment (Higher Paper)

Unit	Topic Title
Algebra	<ul style="list-style-type: none"><li>- Algebraic manipulation</li><li>- Solving Equations</li><li>- Simplifying expressions</li><li>- Laws of Indices</li><li>- Rearranging Formulae</li><li>- Quadratic Equations</li></ul>
Statistics	<ul style="list-style-type: none"><li>- Probability of Combined Events</li><li>- Tree Diagrams</li><li>- Histograms</li></ul>
Geometry and Measures	<ul style="list-style-type: none"><li>- Circle Theorems</li><li>- Speed, Distance, Time</li><li>- Pythagoras' Theorem</li><li>- Trigonometry</li><li>- Volume and Surface Area of 3D Shapes</li><li>- Sine and Cosine Rules</li></ul>
Number	<ul style="list-style-type: none"><li>- Simultaneous Equations</li><li>- Sequences</li></ul>

### Topics to revise for May Assessment (Higher)

Unit	Topic Title
Algebra	<ul style="list-style-type: none"><li>- Completing the Square</li><li>- Quadratic, Cubic and Exponential Graphs</li><li>- Algebraic Fractions</li><li>- Straight Line Graphs</li></ul>
Statistics	<ul style="list-style-type: none"><li>- Representing and Interpreting Data</li><li>- Conditional Probability</li><li>- Venn Diagrams</li><li>- Cumulative Frequency</li><li>- Box plots</li></ul>
Geometry and Measures	<ul style="list-style-type: none"><li>- Angles and Polygons</li><li>- Real-life graphs</li><li>- Area and Perimeter of 2D Shapes</li><li>- Similarity and Congruence</li></ul>
Number	<ul style="list-style-type: none"><li>- Fractions, Decimals and Percentages</li><li>- Ratio and Proportion</li><li>- Accuracy and Bounds</li></ul>

	- Growth and Decay
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