

Summer Assessment Topics for Revision

Year : 12

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

Topics to revise for May Assessment (Foundation)

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

	<ul style="list-style-type: none">- Growth and Decay- Indices and Standard Form
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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

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

Topics to revise for May Assessment (Higher)

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

	- Growth and Decay
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