








Content

-  **Pods**
-  **Check & Challenge**
-  **Ready Made Assignment**
-  **Additional Resources**
-  **In Production**



Maths (Full Course)

AQA

Getting Ready for KS4 (GCSE)

Getting Ready for KS4 (GCSE) Maths

Collecting & Collating Data	MATHS-15-002				
Getting Ready for KS4 (GCSE)	GRF-01-001				
Multiplying Whole Numbers	MATHS-19-002				
Dividing Whole Numbers	MATHS-19-003				
Triangles	MATHS-33-001				
Relative Frequency	MATHS-26-003				
Quadrilaterals	MATHS-33-002				
Composite Shapes	MATHS-33-003				
Circles	MATHS-33-004				
Multiplying Fractions & Cancelling	MATHS-09-004				
Linear Equations in One Unknown	MATHS-04-001				
Prisms	MATHS-33-006				
Converting Between Decimals and Fractions	MATHS-29-002				
Fractions of a Given Number	MATHS-09-002				
Expanding Brackets	MATHS-01-002				
Dividing Fractions	MATHS-09-005				
Multiplying Decimals	MATHS-18-003				
Dividing Decimals	MATHS-18-004				
Place Value	MATHS-20-002				
Finding Percentages	MATHS-11-001				
Adding & Subtracting Fractions	MATHS-09-003				
Averages	MATHS-25-001				
Converting to Percentages	MATHS-29-001				
Estimating Averages	MATHS-25-002				
Comparing Using Percentages	MATHS-11-002				
Percentage Change	MATHS-11-003				
Simplifying Algebraic Expressions	MATHS-01-001				

Symbol Keys

Pods
 In production
 Check & Challenge
 Ready Made Assignment
 Additional Resources

Common Factors	MATHS-01-004				
Notation & Conventions	MATHS-07-001				
Functions	MATHS-07-006				
Rounding	MATHS-20-003				
Rounding to Significant Figures	MATHS-20-008				
Measuring Probability	MATHS-26-001				

Number

Calculation

Adding & Subtracting Whole Numbers	MATHS-19-001			
Multiplying Whole Numbers	MATHS-19-002			
Dividing Whole Numbers	MATHS-19-003			
Negative Numbers	MATHS-19-005			
The Order of Operations	MATHS-19-004			
Counting Combinations	MATHS-19-006			

Fractions

Ordering Fractions	MATHS-09-001			
Fractions of a Given Number	MATHS-09-002			
Multiplying Fractions & Cancelling	MATHS-09-004			
Dividing Fractions	MATHS-09-005			
Adding & Subtracting Fractions	MATHS-09-003			

Decimals

Ordering Decimals	MATHS-18-001			
Adding & Subtracting Decimals	MATHS-18-002			
Multiplying Decimals	MATHS-18-003			
Dividing Decimals	MATHS-18-004			
Standard Form	MATHS-18-005			

Integers

Factors & Multiples	MATHS-08-001			
Primes	MATHS-08-002			
Prime Factorisation	MATHS-08-003			
Highest Common Factors & Lowest Common Multiples	MATHS-08-004			

Symbol Keys

Pods
 In production
 Check & Challenge
 Ready Made Assignment
 Additional Resources

Powers & Roots

Squares & Square Roots & Higher Powers & Roots	MATHS-10-001			
Reciprocals	MATHS-10-003			
Rationalising Denominators (Higher Only)	MATHS-10-007			
Fractional Indices (Higher Only)	MATHS-10-005			
Estimating Powers & Roots (Higher Only)	MATHS-10-002			
Manipulating Surds (Higher Only)	MATHS-10-006			
Laws of Indices	MATHS-10-004			

Converting

Converting Between Decimals and Fractions	MATHS-29-002			
Converting Recurring Decimals (Higher Only)	MATHS-29-003			

Decimals & Units

Money	MATHS-21-001			
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Accuracy

Ordering Integers	MATHS-20-001			
Place Value	MATHS-20-002			
Rounding	MATHS-20-003			
Estimating	MATHS-20-004			
Exact Calculation & Answers	MATHS-20-005			
Limits of Accuracy	MATHS-20-006			
Upper & Lower Bounds (Higher Only)	MATHS-20-007			
Rounding to Significant Figures	MATHS-20-008			

Ratio, Proportion and Rates of Change

Units and Scales

Converting Between Metric Units	MATHS-35-003			
Converting Between Units	MATHS-35-005			
Scale Diagrams	MATHS-30-001			
Compound Units	MATHS-35-002			

Proportion

Proportional Reasoning	MATHS-39-001			
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Symbol Keys

Pods
 In production
 Check & Challenge
 Ready Made Assignment
 Additional Resources

Direct Proportion	MATHS-17-004			
Graphs Through the Origin	MATHS-22-002			
Inverse Proportion	MATHS-17-005			
Proportion (Higher Only)	MATHS-04-006			
Gradient (Higher Only)	MATHS-28-008			

Percentages

Finding Percentages	MATHS-11-001			
Converting to Percentages	MATHS-29-001			
Comparing Using Percentages	MATHS-11-002			
Percentage Change	MATHS-11-003			
Simple Interest	MATHS-11-005			
Reverse Percentage Change	MATHS-11-004			
Growth & Decay	MATHS-10-008			
Iterative Processes (Higher Only)	MATHS-10-009			

Ratio

Links with Ratio	MATHS-09-006			
Simplifying Ratios	MATHS-17-001			
Sharing in a Given Ratio	MATHS-17-002			
Solve Proportion Problems Involving Ratio	MATHS-17-003			

Algebra

The Language of Algebra

Notation & Conventions	MATHS-07-001			
Vocabulary	MATHS-07-003			
Functions	MATHS-07-006			
Proof	MATHS-07-004			
Proof (Higher Only)	MATHS-07-005			
Functions (Higher Only)	MATHS-07-007			

Algebraic Manipulation

Simplifying Algebraic Expressions	MATHS-01-001			
Common Factors	MATHS-01-004			
Factorising Quadratics	MATHS-01-005			

Symbol Keys

Pods
 In production
 Check & Challenge
 Ready Made Assignment
 Additional Resources

Expanding Brackets (Higher Only)	MATHS-01-003			
Factorising Quadratics (Higher Only)	MATHS-01-006			
Simplifying Quotients (Higher Only)	MATHS-01-007			
Algebraic Fractions (Higher Only)	MATHS-01-009			
Expanding Brackets	MATHS-01-002			
Completing the Square (Higher Only)	MATHS-01-008			

Formulae

Substitution	MATHS-05-001			
Standard Formulae	MATHS-05-005			
Rearranging Formulae	MATHS-05-003			
Rearranging Formulae (Higher)	MATHS-05-004			
Formulating Problems Algebraically	MATHS-05-002			

Linear Graphs

Coordinates	MATHS-22-001			
Gradient (Higher Only)	MATHS-22-005			
Solving Equations	MATHS-22-007			
Inequalities with Two Variables (Higher Only)	MATHS-22-009			
Tangents to Circles (Higher Only)	MATHS-22-008			
Area Under Graphs (Higher Only)	MATHS-22-006			
Gradient	MATHS-22-004			
$y = mx + c$	MATHS-22-003			

Non-Linear Graphs

Cubic Graphs	MATHS-28-004			
Quadratic Graphs	MATHS-28-001			
Reciprocal Graphs	MATHS-28-002			
Other Graphs	MATHS-28-005			
Exponential Graphs (Higher Only)	MATHS-28-003			
Circles (Higher Only)	MATHS-28-007			
Area Under Graphs (Higher Only)	MATHS-28-009			
Transformations of Graphs (Higher Only)	MATHS-28-010			
Trigonometric Graphs (Higher Only)	MATHS-28-006			

Equations

Symbol Keys

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 Check & Challenge
 Ready Made Assignment
 Additional Resources

Simultaneous Equations - Linear Only	MATHS-04-005			
Linear Inequalities	MATHS-04-010			
Quadratic Equations (Higher Only)	MATHS-04-003			
Linear Equations in One Unknown	MATHS-04-001			
Simultaneous Equations - Linear & Quadratic (Higher Only)	MATHS-04-007			
Inequalities (Higher Only)	MATHS-04-011			
Using Iteration (Higher Only)	MATHS-04-009			
Quadratic Equations that Factorise	MATHS-04-002			

Sequences

Term to Term Rules	MATHS-23-001			
Position to Term Rules	MATHS-23-002			
Linear Sequences	MATHS-23-004			
Special Sequences	MATHS-23-003			
Geometric Progressions	MATHS-23-005			
Quadratic Sequences	MATHS-23-007			
Special Sequences (Higher Only)	MATHS-23-006			
Quadratic Sequences (Higher Only)	MATHS-23-008			

Geometry & Measures

Language & Conventions

Coordinates	MATHS-13-001			
2D Shapes	MATHS-13-003			
3D Shapes	MATHS-13-005			
Circles	MATHS-13-004			
Vectors	MATHS-13-002			
How to Use a Pair of Compasses and a Protractor	MATHS-13-006			
Using Compasses and a Protractor to Draw Accurate Diagrams	MATHS-13-007			
















Accurate Drawing

2D Representations of 3D Shapes	MATHS-30-005			
Maps & Bearings	MATHS-30-002			
Constructions	MATHS-30-003			
Loci	MATHS-30-004			



Symbol Keys

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 Check & Challenge
 Ready Made Assignment
 Additional Resources






















Angles

Angle Rules	MATHS-31-001			
Angles in Parallel Lines	MATHS-31-002			
Angles in Polygons	MATHS-31-003			
Circle Theories (Higher Only)	MATHS-31-004			
Circles & Tangents (Higher Only)	MATHS-31-005			

Properties of Shapes

Triangles	MATHS-34-001			
Symmetry	MATHS-34-003			
Quadrilaterals	MATHS-34-002			
3D Shapes	MATHS-34-004			
Proof	MATHS-34-005			
Proof (Higher)	MATHS-34-006			












Congruence & Similarity

Transformations	MATHS-32-001			
Enlargement	MATHS-32-002			
Congruence	MATHS-32-005			
Transformations (Higher Only)	MATHS-32-003			
Area & Volume (Higher Only)	MATHS-32-007			
Vectors (Higher Only)	MATHS-32-004			
Similarity	MATHS-32-006			

Units

Standard Units	MATHS-35-001			
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Length, Area & Volume

Triangles	MATHS-33-001			
Quadrilaterals	MATHS-33-002			
Composite Shapes	MATHS-33-003			
Circles	MATHS-33-004			
Parts of Circles	MATHS-33-005			
Prisms	MATHS-33-006			
Other 3D Shapes	MATHS-33-008			

Symbol Keys



Pods



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Ready Made Assignment




Additional Resources

Trigonometry













Exact Values	MATHS-24-003			
Sine Rule (Higher Only)	MATHS-24-004			
Pythagoras' Theorem	MATHS-24-001			
Trigonometry in Right-angled Triangles	MATHS-24-002			
3D Trigonometry (Higher Only)	MATHS-24-007			
Area Formula (Higher Only)	MATHS-24-006			
Cosine Rule (Higher Only)	MATHS-24-005			

Probability


Single Event

Measuring Probability	MATHS-26-001			
Calculating Probability	MATHS-26-002			
Relative Frequency	MATHS-26-003			
Equally Likely Outcomes	MATHS-26-004			

Combined Events


Calculating Probability	MATHS-27-001			
Tree Diagrams	MATHS-27-002			
Conditional Probability (Higher Only)	MATHS-27-003			
Probability & Number (Higher Only)	MATHS-27-004			

Sets

Venn Diagrams	MATHS-14-001			
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Statistics

Collecting Data

Collecting & Collating Data	MATHS-15-002			
Sampling	MATHS-15-001			

Representing Data

Categorical Data	MATHS-16-001			
Discrete Data	MATHS-16-002			
Continuous Data	MATHS-16-004			
Time Series Data	MATHS-16-006			
Cumulative Frequency Graphs (Higher Only)	MATHS-16-007			

Symbol Keys



Pods



In production



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


Additional Resources

Histograms (Higher Only)




MATHS-16-008   

Box Plots (Higher Only)




MATHS-16-009   

Analysing Data




Interpreting Graphs

MATHS-25-008   




Bivariate data

MATHS-25-006   




Using Correlation

MATHS-25-007   




Averages

MATHS-25-001   




Estimating Averages

MATHS-25-002   

Measures of Spread

MATHS-25-003   




Measures of Spread (Higher Only)

MATHS-25-004   

Revision Skills and Tips - Maths

GCSEPod's Top Revision Tips

GCSEPod's Top Revision Tips

REV-011-001   

Getting Ready for KS5 (A Level)

Getting Ready for KS5 (A Level) Maths

Getting Ready for KS5 (A Level)

GRF-01-002   

Reciprocals

MATHS-10-003    

Rationalising Denominators (Higher Only)

MATHS-10-007    

Fractional Indices (Higher Only)

MATHS-10-005    

Manipulating Surds (Higher Only)

MATHS-10-006    

Quadratic Graphs

MATHS-28-001    

Rearranging Formulae

MATHS-05-003    

Trigonometry in Right-angled Triangles

MATHS-24-002    

Solving Equations

MATHS-22-007    

Quadratic Equations (Higher Only)

MATHS-04-003    

Tangents to Circles (Higher Only)

MATHS-22-008    

Area Formula (Higher Only)

MATHS-24-006    

Circles (Higher Only)

MATHS-28-007    

Gradient

MATHS-22-004    

Rearranging Formulae (Higher)

MATHS-05-004    

Factorising Quadratics

MATHS-01-005    

Symbol Keys



Pods



In production































































Check & Challenge



Ready Made Assignment



Additional Resources

Factorising Quadratics (Higher Only)	MATHS-01-006				
Quadratic Equations that Factorise	MATHS-04-002				
Completing the Square (Higher Only)	MATHS-01-008				
Simultaneous Equations - Linear Only	MATHS-04-005				
Simultaneous Equations - Linear & Quadratic (Higher Only)	MATHS-04-007				
$y = mx + c$	MATHS-22-003				
Gradient (Higher Only)	MATHS-22-005				
Reciprocal Graphs	MATHS-28-002				
Exponential Graphs (Higher Only)	MATHS-28-003				
Cubic Graphs	MATHS-28-004				
Other Graphs	MATHS-28-005				
Transformations of Graphs (Higher Only)	MATHS-28-010				
Sine Rule (Higher Only)	MATHS-24-004				
Cosine Rule (Higher Only)	MATHS-24-005				
Trigonometric Graphs (Higher Only)	MATHS-28-006				

Symbol Keys



Pods



In production



Check & Challenge



Ready Made Assignment



Additional Resources