

Recommended Pre-requisites and Next Steps

<u>NUMBER</u>		
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N 1.1 N 3.1	N 1.2 Subtracting Integers	N 1.3 N 3.3
N 1.1 N 3.1	N 1.3 Multiplying Integers	N 1.4 N 3.4
N 1.3 N 3.1 N 4.2 N 5.1	N 1.4 Dividing Integers	N 3.5 N 5.3
N 8.1	N 1.5 Order of Operations	N 11.1
N 8.1	N 1.6 Prime Numbers & Prime Factor Decomposition	N 1.7 N 1.8
N 1.6	N 1.7 Factors & Highest Common Factor (HCF)	N 1.8
N 1.6 N 1.7	N 1.8 Multiples & Lowest Common Multiple (LCM)	N 4.3 N 4.4
N 1.1 N 1.2	N 2.1 Adding & Subtracting Negative Numbers	N 2.2 N 8.2
N 1.3 N 1.4 N 2.1	N 2.2 Multiplying & Dividing Negative Numbers	N 8.2
	N 3.1 Place Value & Ordering Decimals	N 3.2 N 3.3
N 3.1	N 3.2 Multiplying & Dividing by 10, 100, 1000	N 3.4 N 3.5 N 3.6
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N 1.4 N 3.2 N 4.1	N 3.5 Dividing Decimals	
N 1.3 N 1.4 N 3.2	N 3.6 Related Calculations	
N 1.7	N 4.1 Equivalent Fractions	N 4.2 N 4.3 N 4.4
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N 4.1 N 4.2 N 4.5	N 4.6 Dividing Fractions	

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N 1.4 N 3.2 N 4.1 N 5.1	N 6.1 Expressing One Quantity as a Percentage of Another	N 6.2
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N 3.2 N 3.4 N 4.7 N 6.2	N 6.3 Percentages of an Amount (Calculator)	N 6.4
N 6.2 N 6.3	N 6.4 Percentage Increase / Decrease	N 6.5 N 6.6 N 6.7
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N 6.4	N 6.7 Compound Interest	
N 3.1	N 7.1 Rounding - Nearest 10, 100, 1000	N 7.2 N 7.6
N 3.1 N 7.1	N 7.2 Rounding - Nearest Whole Number & Decimal Places	N 7.3 N 7.6
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N 1.1 N 1.2 N 3.3 N 3.4 N 3.5 N 8.2 N 9.1	N 9.2 Calculating with Standard Form	
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RATIO, PROPORTION & RATES OF CHANGE

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N 1.7 R 1.1	R 1.2 Simplifying Ratio	R 1.3
R 1.1 R 1.2	R 1.3 Sharing in a Ratio	R 1.4
R 1.1 R 1.2 R 1.3 N 1.8	R 1.4 Ratio Problems	R 2.1
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R 2.1	R 2.2 Direct & Inverse Proportion	R 2.3
R 2.2 A 3.9 A 3.10	R 2.3 Direct Proportion (Algebra)	R 2.4
R 2.2 R 2.3 A 3.9 A 3.10	R 2.4 Inverse Proportion (Algebra)	
N 11.2	R 3.1 Speed	R 4.3 R 4.4 R 4.5
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R 3.2 G 5.2 G 5.3	R 3.3 Pressure	
A 2.2 N 11.4	R 4.1 Conversion Graphs	R 4.2
R 4.1 A 2.3	R 4.2 Other Real-Life Graphs	R 4.3
R 3.1	R 4.3 Distance-Time Graphs	R 4.4
R 3.1 R 4.3 A 2.3 A 2.6 G 2.2 G 2.3	R 4.4 Speed-Time Graphs (Straight Lines)	R 4.5
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ALGEBRA

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A 1.1	A 2.1 $x = a$, $y = b$ Graphs	A 2.2
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A 2.2	A 2.3 Equations of Linear Graphs ($y = mx + c$)	A 2.4 A 2.5 A 2.6 A 2.7
A 2.2 A 2.3 A 3.12	A 2.4 Using $y = mx + c$ to Draw Linear Graphs	A 2.5
A 2.3 A 2.4 A 3.9 A 3.10 A 3.11	A 2.5 Using $y = mx + c$ to Solve Problems	A 2.6
A 2.3 A 3.9	A 2.6 Using Gradients and Co-ordinates to find $y = mx + c$	A 2.7
A 2.3 A 2.6 A 3.9 A 3.12	A 2.7 Parallel & Perpendicular Lines	A 6.3
N 8.1	A 3.1 Algebraic Notation	A 3.2 A 3.3 A 3.4
A 3.1	A 3.2 Collecting Like Terms	A 3.3
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N 1.7 N 4.1 N 8.1 N 8.2 A 3.3	A 3.4 Dividing Terms	A 3.6 A 3.7 A 11.1
A 3.2 A 3.3	A 3.5 Expanding Single Brackets	A 3.6 A 4.1
N 1.7 A 3.4 A 3.5	A 3.6 Factorising into Single Brackets	A 4.2
N 4.1 N 4.5 N 8.1 N 8.2 N 8.3 A 3.3 A 3.4	A 3.7 Laws of Indices (Algebra)	
N 3.6	A 3.8 Function Machines	A 3.9 A 3.10
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N 1.5 N 2.1 N 2.2 N 3.6 A 3.1 A 3.8 A 3.9	A 3.10 Solving Linear Equations	A 3.11 A 3.12
N 1.5 N 2.1 N 2.2 A 3.2 A 3.5 A 3.9 A 3.10	A 3.11 Solving Linear Equations (with the unknown on both sides)	A 3.12
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A 3.5 A 3.6 A 4.1	A 4.2 Factorising Quadratics	A 4.3 A 4.8
A 3.5 A 3.6 A 4.1 A 4.2	A 4.3 Factorising Quadratics (Advanced)	A 4.9
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N 1.5 A 2.2 A 3.9	A 4.5 Plotting Quadratic Graphs	A 4.6 A 4.12 A 4.13
A 2.1 A 4.5	A 4.6 Solving Quadratics - Graphically	A 4.7 A 4.12 A 4.13
A 2.1 A 2.2 A 4.5 A 4.6	A 4.7 Solving Quadratics - Graphically (Advanced)	A 4.12 A 4.13
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A 3.6 A 3.10 A 4.2 A 4.3 A 4.8	A 4.9 Solving Quadratics - Factorising (Advanced)	A 4.12
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N 10.1 A 3.10 A 4.4	A 4.11 Solving Quadratics - Completing the Square	A 4.12
A 4.6 A 4.7 A 4.8 A 4.9 A 4.10 A 4.11	A 4.12 Solving Quadratics - All Methods	A 4.13 A 8.1 A 8.2 A 9.2 A 11.4
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A 3.5 A 3.9 A 3.12 A 4.1 A 4.8 - A 4.12	A 9.2 Simultaneous Equations - Non-Linear	

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A 10.1 A 10.2	A 10.3 Geometric & Fibonacci Sequences	
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N 4.1 A 3.2 A 3.3 A 3.4 A 3.5 A 3.6 A 3.7 A 3.10 A 3.11 A 4.1 A 4.2 A 4.3 A 4.12 A 11.1	A 11.2 Algebraic Fractions - Add/Subtract	A 11.3
N 4.1 A 3.2 A 3.3 A 3.4 A 3.5 A 3.6 A 3.7 A 3.10 A 3.11 A 4.1 A 4.2 A 4.3 A 4.12 A 11.1	A 11.3 Algebraic Fractions - Multiply/Divide	
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A 3.1 A 3.2 A 3.3 A 3.5 A 3.6 A 4.1	A 13.1 Algebraic Proof	

GEOMETRY

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G 1.1	G 1.3 3D Shapes - Properties	G 1.4 G 4.1 G 4.2 G 4.3 G 4.4
G 1.3	G 1.4 Plans & Elevations	G 4.1 G 4.2 G 4.3 G 4.4
G 1.1	G 2.1 Perimeter	G 2.2 G 2.3 G 2.4 G 2.5 G 3.1
A 3.10 G 1.1 G 2.1 G 5.2	G 2.2 Area of Rectangles	G 2.3 G 2.4 G 2.5 G 3.3 G 4.1 G 4.2
A 3.10 G 1.1 G 2.1 G 2.2 G 5.2	G 2.3 Area of Parallelograms	G 2.4 G 2.5 G 3.3 G 4.1 G 4.2
A 3.10 G 1.1 G 2.1 G 2.2 G 2.3 G 5.2	G 2.4 Area of Triangles	G 2.5 G 3.3 G 4.1 G 4.2
A 3.10 G 1.1 G 2.1 G 2.2 G 2.3 G 2.4 G 5.2 S 2.1	G 2.5 Area of Trapezia	G 3.3 G 4.1 G 4.2
N 7.2 A 3.10 G 2.1 G 2.2	G 3.1 Circumference	G 3.2 G 3.3
N 4.1 N 4.5 N 4.7 A 3.10 G 2.1 G 3.1 G 6.2	G 3.2 Arc Length	G 3.3 G 3.4
N 7.2 A 3.10 G 2.2 G 2.4 G 3.1	G 3.3 Area of Circles	G 3.4 G 4.1 G 4.3
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STATISTICS

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S 1.1 S 1.2	S 1.3 Types of Data	S 1.4 S 1.5
S 1.1 S 1.2 S 1.3	S 1.4 Tally Charts	S 1.5 S 2.2 S 3.1 S 3.2 S 3.4 S 3.7 S 3.9
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S 1.1 S 1.3 S 1.4 S 2.1 S 3.1 S 3.4	S 2.2 Averages from a Table	
S 1.1 S 1.3 S 1.4 S 1.5 S 2.1 S 2.2	S 3.1 Pictograms & Bar Charts	S 3.2
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N 4.1 N 4.7 N 6.2 N 6.3 A 1.1 S 1.1 S 1.3 S 1.4 S 2.1 S 2.2 S 3.1 S 3.2 S 3.3 P 1.1	S 3.4 Frequency Polygons	S 3.5
A 1.1 S 1.1 S 1.3 S 1.4 S 2.1 S 3.1 S 3.2 S 3.3 S 3.4	S 3.5 Time Series	S 3.6
A 1.1 S 1.1 S 1.3 S 1.4 S 1.5 S 3.1 S 3.2 S 3.3 S 3.4 S 3.5	S 3.6 Scatter Graphs	S 3.7
N 4.1 N 4.7 N 6.1 N 6.2 N 6.3 A 1.1 S 1.1 S 1.3 S 1.4 S 2.1 S 2.2 S 3.1 S 3.2 S 3.3 S 3.4 S 3.5 S 3.6 P 1.1	S 3.7 Cumulative Frequency Diagrams	S 3.8
	S 3.8 Box Plots	

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<u>PROBABILITY</u>		
<u>Pre-requisites</u>	<u>Titles</u>	<u>Next Steps</u>
	P 1.1 Basic Probability	
	P 1.2 Relative Frequency	
	P 2.1 Listing Outcomes & Sample Space	
	P 2.2 Product Rule for Counting	
	P 2.3 Frequency Trees	
	P 2.4 Tree Diagrams	
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