

Maths Topics KS4

1 Algebraic Fractions	Algebra
2 Collecting Terms and Simplifying	Algebra
3 Completing the Square	Algebra
4 Conversion Graphs	Algebra
5 Cubic and Reciprocal Graphs	Algebra
6 Difference of Squares	Algebra
7 Distance - Time Graphs	Algebra
8 Equation and Graph of a Circle	Algebra
9 Factorising Algebraic Expressions	Algebra
10 Factorising Quadratic Expressions	Algebra
11 Graphs of Trigonometric Functions	Algebra
12 Inequalities as Regions on Graphs	Algebra
13 Inequalities on a Number Line	Algebra
14 Inequalities: Solving	Algebra
15 Linear Equations	Algebra
16 Linear Sequences - Finding terms and rules	Algebra
17 Midpoint of a Line Segment	Algebra
18 Multiplying out a Double Pair of Brackets	Algebra
19 Multiplying out a Single Pair of Brackets	Algebra
20 Plotting Co-ordinates in all Four Quadrants	Algebra
21 Quadratic Graphs	Algebra
22 Rearranging Formulae	Algebra
23 Simplifying Algebraic Fractions Containing Quadratics	Algebra
24 Solving Equations by Trial and Improvement	Algebra
25 Solving Quadratic Equations by Factorising	Algebra
26 Solving Quadratic Equations by using the Formula	Algebra
27 Solving Simultaneous Equations by Elimination	Algebra
28 Solving Simultaneous Equations by Substitution	Algebra
29 Solving Simultaneous Equations Graphically	Algebra
30 Straight Line Graphs	Algebra
31 Transforming Graphs	Algebra
32 Writing a Formula from Words	Algebra
1 Averages - Finding an Estimate of the Mean	Data
2 Averages - Mode, Median, Mean and Range	Data
3 Averages -Mean from a Frequency Table	Data
4 Bar Charts	Data
5 Cumulative Frequency and Box Plot Diagrams	Data
6 Frequency Polygons	Data
7 Frequency Tables and Grouped Frequency Tables	Data
8 Histograms	Data
9 Pictograms	Data
10 Pie Charts	Data
11 Probability: Single Events	Data
12 Probability: Tree Diagrams	Data
13 Probability: Listing Outcomes & Probability Space Diagrams	Data
14 Scatter Diagrams	Data
15 Stem and Leaf Diagrams	Data
16 Stratified Sample	Data

17 Time Series and Moving Averages	Data
18 Two Way Tables	Data
19 Types of Data	Data
1 Adding Decimals	Number
2 Adding Whole Numbers	Number
3 Best Value for Money	Number
4 Changing a Recurring Decimal into a Fraction	Number
5 Compound Interest & Compound Percentage Change	Number
6 Converting between Fractions, Decimals and Percentages	Number
7 Estimating the Answer to a Calculation	Number
8 Factors, Multiples, HCF, LCM	Number
9 Fractions	Number
10 Long Division	Number
11 Long Multiplication - Grid Method	Number
12 Money Questions	Number
13 Multiplying and Dividing by 10, 100, 1000 etc	Number
14 Negative Numbers	Number
15 Odd, Even, Prime and Triangular Numbers	Number
16 Order of Operations - BODMAS	Number
17 Ordering Decimals	Number
18 Percentages	Number
19 Place Value	Number
20 Powers	Number
21 Proportion - Direct Proportion	Number
22 Proportion - Inverse Proportion	Number
23 Ratio	Number
24 Reciprocals	Number
25 Rounding Numbers	Number
26 Shaded Fractions	Number
27 Simple Interest	Number
28 Squares, Cubes and Roots	Number
29 Standard Form	Number
30 Subtraction	Number
31 Surds	Number
32 Upper and Lower Bounds	Number
33 Writing a number as a product of Prime Factors	Number
34 Long Multiplication - Traditional Method	Number
1 2D Shapes	Shape
2 3D Co-ordinates	Shape
3 Angles: Calculating Angles	Shape
4 Angles: Measuring Angles	Shape
5 Area by Counting Squares	Shape
6 Area of a Triangle	Shape
7 Area of Compound Shapes - Rectangles	Shape
8 Area of Quadrilaterals	Shape
9 Bearings	Shape
10 Circle Theorems	Shape
11 Circles - Compound Areas and Perimeters	Shape
12 Circles: Finding Arc Lengths and Areas of Sectors	Shape
13 Circles: Parts, lengths, area	Shape

14	Cones and Pyramids - Surface Area and Volume	Shape
15	Constructions	Shape
16	Converting between units of Length, Area and Volume	Shape
17	Cubes and Cuboids: Surface Area & Volume	Shape
18	Cylinders: Surface Area & Volume	Shape
19	Density, Mass and Volume	Shape
20	Dimensions	Shape
21	Drawing 3D Shapes on Isometric Paper	Shape
22	Locus	Shape
23	Metric and Imperial Units - Length, Mass & Capacity	Shape
24	Nets of Solids	Shape
25	Perimeter of Rectangle and L Shape	Shape
26	Plans and Elevations	Shape
27	Pythagoras and Trigonometry in 3D	Shape
28	Pythagoras' Theorem	Shape
29	Similarity and Congruence	Shape
30	Speed, Distance and Time	Shape
31	Spheres: Surface area & Volume	Shape
32	Symmetry	Shape
33	Tessellations	Shape
34	Time	Shape
35	Transformations	Shape
36	Trigonometry - Non-Right angled Triangles	Shape
37	Trigonometry - Right angled Triangles	Shape
38	Vectors	Shape