

# Focus on Maths (KS3)

## Topics - 2 year plan

### (age guide 12 - 16)

#### Autumn 1:

Rounding - Decimal Points and Significant Figures  
Simplifying Fractions and Ratios  
Sharing in a Ratio  
Fractions of an Amount & Bus Stop  
Fractions <--> Decimals  
Decimals <--> Percentages & Percentages <--> Fractions  
Percentage of Amount  
Multipliers and Simple Interest  
Percentage Increase/Decrease  
Reverse Percentages  
Best Buy  
Recipe Scaling  
Metric Conversions  
Exchange Rates  
Christmas

#### Spring 1:

Perimeter of Compound Shapes  
Area of Compound Shapes  
Product of Primes  
HCF and LCM  
Negative Numbers (+&-)  
Negative Numbers (x&/)  
Collecting Like Terms  
Substitution  
Expanding Single Brackets  
Factorising Single Brackets  
Pythagoras Missing Hypotenuse  
Pythagoras Missing Non Hypotenuse  
Easter

#### Summer 1:

Special Sequences  
Nth Term and Term-to-Term Rule  
Parts of a Circle  
Circumference  
Area of a Circle  
Scatter Graphs  
Two Way Table  
Sample Space Diagram  
Venn Diagrams  
Index Laws  
Standard Form  
Multiplying/Dividing Standard Form  
Summer Recap

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#### Autumn 2:

Ratio review  
BIDMAS  
Algebra-Substitution recap  
Algebra-solving  
Volume, surface area  
Decimals  
function machines  
coordinates and straight line graphs

#### Spring 2:

Averages-mode, median, range  
Averages-recap and mean  
Tally charts  
Bar charts  
Pie charts  
Stem and leaf diagrams  
Pictograms  
Frequency polygons  
Scale drawings and isometric drawings  
Fractions (simplifying and equivalent)  
Fractions (mixed numbers and improper)  
Fractions (multiply and divide)  
Fractions (add and subtract)  
Easter activities based on fractions

#### Summer 2 :

Fractions of an Amount  
Number Line Inequalities  
Solving Equations - recap  
Solving Inequalities  
Symmetry  
Angle Facts and Angles at a Point  
Parallel Lines and Angles  
Interior Angles  
Exterior Angles  
Probability Scale and Language  
Frequency Trees  
Relative Frequency  
Probability Trees