



## Long Term Plan Maths Year 9

Here is an outline of what we plan to study in year 9 Maths lessons. Our Medium and Short Term Plans highlight where we promote cross curricular links, British Values, SMSC and links to Careers and Employability.

### Term 1

Topic	Week	Learning
Place Value Powers	1	Place value, $\times/\div$ by powers of 10
Basic operation	2	Four operations
Conversion	3	Converting between metric units and ordering
Indices	4	Types of number, powers and roots
Negative numbers	5	Negative numbers
BIDMAS	6	Order of operations
Prime factors	7	Product of prime factors, HCF/LCM
Graphs and charts	8	Statistical diagrams- bar charts, dual bar charts
<b>HALF TERM</b>		
Statistics	1	Statistical diagrams- two way tables
Decimals	2	Decimals- order, $+/-$
Decimals	3	Decimals- $\times/\div$
Money	4	Money problems
Inequalities	5	Inequalities on a number line
Fractions	6	Fraction of an amount including shading
Fractions	7	Fractions (equivalence, simplify, mixed number)

## Term Two

Topic	Week	Learning
Fraction, Decimals, Percentages	1	FDP equivalence
Fractions	2	Add and subtract fractions
Function Machines	3	Function machines
Formulas	4	Real life formula and substitution
Expressions	5	Substitution continued and simplify by collecting terms
Equations	6	Solving equations (one step, two step)
<b>HALF TERM</b>		
Equations	1	Solving equations (one step, two step)
Equations	2	Expanding brackets
Rounding	3	Rounding
Percentages	4	Calculating percentages

### Term Three

Topic	Week	Learning
Percentages	1	Calculating percentages (inc/dec)
Probability	2	Probability
Probability	3	Probability
Averages and range	4	Averages and range
Averages and range	5	Averages and range
Ratio	6	Ratio (understand, scales and simplify)
<b>HALF TERM</b>		
Ratio	1	Ratio (share into)
Symmetry	2	Naming shapes, rotational and reflectional symmetry
Area	4	Area (rectangles, triangles, parallelograms)
Area	5	Functional area problems
Angles	6	Angles- name, draw and measure
Angles	7	Angle- on a line, point and triangle