



# MATHS



**PRIMARY**  
**NUMBER**  
 Significant figures  
 Simple estimates, LCM/HCF  
 Index notation

Negative numbers  
 BIDMAS  
 Four rules of decimal  
 Introduce standard form

Reciprocals  
 Standard form (large numbers)  
 Estimation/ rounding  
 Index Laws  
 Prime factor decomposition  
 HCF / LCM using primes

**NUMBER**  
 Subject of formula (unknown both sides)  
 Index laws in algebra  
 Inequalities

Four rules with standard form  
 Small numbers in standard form

Inequalities and error intervals  
 Truncation  
 Surds  
 Fractional / negative powers

Upper / lower bounds in calculations (e.g. speed / density)

Product rule for counting

**ALGEBRA**  
 nth term  
 Plot graphs  $y=mx+c$   
 Gradient / y-intercept

Simplify expressions  
 2 step simple equations  
 Substitute positive /negative  
 Change subject of formula

Compare straight line graph  
 Recognise quadratic graphs  
 Find nth term

**ALGEBRA**  
 Subject of the formula (more complex)  
 Subject of formula (unknown both sides)  
 Index laws in algebra  
 Inequalities

Expand double brackets  
 Simple algebraic fractions  
 Linear simultaneous equations  
 Double Inequalities  
 Solve Quadratics (factorising)

Quadratic formula  
 Completing the square  
 Composite functions  
 Quadratic graphs  
 geometric progressions

**ALGEBRA**  
 Proof  
 Subject of the formula (complex)  
 Algebraic fractions including quadratics

Factorise quadratics  
 Difference of two squares  
 Inverse functions  
 Complex algebraic fractions  
 Sim equations with circles

**YEAR 7**  
**STATS/PROB**  
 Simple probability  
 Combined probability  
 Experimental problems

Averages  
 Mean from table  
 Statistical diagrams  
 Scatter graphs

Sampling (random)  
 Tree diagrams  
 Venn diagrams

**YEAR 8**  
**STATS/PROB**  
 Estimated mean  
 Stem/Leaf diagrams  
 Correlation

Cumulative Frequency  
 Box plots  
 Stratified sampling

**YEAR 9**  
**STATS/PROB**  
 Conditional probability

Compare measures of spread  
 Histograms  
 Medium / quartiles

Tree diagram – conditional prob  
 Venn diagrams – conditional prob

Median & quartiles from histograms  
 Frequency density

**YEAR 10**  
**STATS/PROB**  
 Elevation / Depression  
 Circle Theorems  
 SOHCAHTOA  
 (more complex curves)

Enlargements negative scale factor  
 Similar triangles  
 Areas/sectors

3D Pythagoras  
 Tangents  
 3D volumes/Surface area

**YEAR 11**  
**STATS/PROB**  
 Direct / inverse proportion questions  
 Exponential function

Enlargements negative scale factor  
 Similar triangles  
 Areas/sectors

Enlargements negative scale factor  
 Similar triangles  
 Areas/sectors

Enlargements negative scale factor  
 Similar triangles  
 Areas/sectors

Enlargements negative scale factor  
 Similar triangles  
 Areas/sectors

**YEAR 11**  
**GEOMETRY**  
 Area/Perimeter (incl. circles)  
 Volume of a cube/cuboid  
 Transformations (incl. Enlargements)  
 Constructions

Angles in parallel lines  
 Angles in polygons

Volumes / surface area of Prism  
 Semi-circles  
 Congruency  
 Vector notation

**YEAR 10**  
**GEOMETRY**  
 Repeated proportional change  
 Reverse percentages  
 Real life percentage problem  
 Distance time graphs

Add vectors  
 Combine transformations  
 Pythagoras problem solving  
 SOHCAHTOA

Repeated proportional change  
 Reverse percentages  
 Real life percentage problem  
 Distance time graphs

Repeated proportional change  
 Reverse percentages  
 Real life percentage problem  
 Distance time graphs

Repeated proportional change  
 Reverse percentages  
 Real life percentage problem  
 Distance time graphs



4 rules with mixed numbers  
 Compound interest  
 Unitary method  
 Compound measures  
 Proportion / inverse proportion

Repeated proportional change  
 Reverse percentages  
 Real life percentage problem  
 Distance time graphs

Repeated proportional change  
 Reverse percentages  
 Real life percentage problem  
 Distance time graphs

Direct / inverse proportion questions  
 Exponential function

Direct / inverse proportion questions  
 Exponential function

Direct / inverse proportion questions  
 Exponential function