

Key Stage 3 Curriculum – Year 8 Mathematics 2015

Term 1	Number <ul style="list-style-type: none"> ▪ Primes and indices ▪ Prime factorisation to find LCM, HCF, squares, cubes ▪ Add and subtract fractions 	Term 4	Proportional Reasoning <ul style="list-style-type: none"> ▪ Convert between percentages and fractions and decimals ▪ Percentage increase and decrease, finding the whole given the part and the percentage ▪ Ratio (equivalent, of a quantity) and rate ▪ Speed, distance, time
Term 2	Algebraic expressions <ul style="list-style-type: none"> ▪ Negative numbers and inequality statements ▪ Formulating and evaluating expressions ▪ Linear equations ▪ Expressions and equations from real-world situations ▪ Linear sequences: nth term 	Term 5	3D Geometry <ul style="list-style-type: none"> ▪ Rounding, significant figures and estimation ▪ Circumference and area of a circle ▪ Visualise and identify 3D shapes and their nets ▪ Volume of cuboid, prism, cylinder, composite solids
Term 3	2D Geometry <ul style="list-style-type: none"> ▪ Draw accurate triangles and quadrilaterals (ruler, protractor, compasses) ▪ Find unknown angles (including parallel lines) ▪ Conversion between length units and between area units ▪ Area and perimeter of composite figures ▪ Area of parallelograms and trapeziums 	Term 6	Statistics <ul style="list-style-type: none"> ▪ Collecting and organising data ▪ Construction and interpretation of graphs – pictograms, bar charts, pie charts, histograms, line graphs ▪ Interpret and compare statistical representations ▪ Mean, median and mode averages

Recommended Resources:

- Pen, pencil, and ruler
- Protractor and a compass
- Calculator

How you can help:

- Encourage your child to practise maths every day at home
- Take an interest in your child's work in maths by checking their homework is done promptly and to a good standard