

Mathematics

Year 7 2020-2021

Topics studied:

Autumn 1	Place Value	Autumn 2	Types of number
	Addition/Subtraction		Factors and multiples
	Multiplication		Introduction to algebra
	Division		Expanding single brackets
	Rounding and estimating		Functions
	Order of operations		Autumn Review
	Metric Units		
Spring 1	Properties of shape	Spring 2	Calculate with fractions (2)
	Angles - drawing/measuring/point/line/vo		Area and perimeter of quadrilaterals
	Angles - shapes		Area of triangles and trapezia
	Simplify/Equivalent/Order Fractions		Types of sequence (1)
	Calculate with fractions (1)		Spring Review
Summer 1	Types of sequence (2)	Summer 2	Presentation of data (1)
	Linear sequences		Presentation of data (2)
	Mathematical movement - Graphs		Construction
	Straight line graphs		End of year Assessment
	Measuring data		Project
			Project

Keywords that students must know, and be able to spell, by the end of the course:

Integer, power, equal, inequality, sum, difference, decimal, directed, product, multiple, multiply, digit, divisor, dividend, factor, remainder, round, estimate, calculate, calculation, order, operation, index, Metric, Unit, Measurement, Convert,

Prime, Square, Cube, Decomposition, Root, Factor, Multiple, Solve, Expression, Term, Formula, Variable, Expand, Binomial, Equivalence, Manipulate, Functions, Substitute, Input, Output

Polygon, Parallel, Perpendicular, Regular, Acute, Obtuse, Adjacent, Reflex, Unknown, Find, Solve, Point, Simplify, Equivalent, Numerator, Denominator, Mixed, Proper, Improper, Amount

Find, Part, Real, Rational, Area, Perimeter, Compound, Recognise, Orientation, Apply, Perpendicular, Base, Position, term, sequence, pattern

Arithmetic, Linear, Geometric, continue, Identify, descending, ascending, difference, Coordinate, Plot, Quadrant, Sketch, Graph, Intercept, Coefficient, Generate, Average, Data, Set, Spread

Construct, Interpret, Appropriate, Comparative, Ungrouped, Frequency, Grouped, Construct, Protractor, Compass,

Subject specific websites to support revision and independent learning:

Mymaths (lessons, homework and games):

www.mymaths.co.uk BBC Bitesize (revision and tests):

www.bbc.co.uk/education/subjects/zqhs34j Subtangent (revision, games and investigations): www.subtangent.com/maths/index.php Nrich (games and puzzles):

www.nrich.maths.org.uk/public/index.php Counton (lots of games):

www.counton.org/games/ Sums (games):

www.sums.co.uk/playground.htm Mathsapps (find apple maths apps):

www.mathsapps.com/ Brainbashers (games and puzzles):

www.brainbashers.com/puzzles.asp Funbrain (puzzles & games):

www.funbrain.com/ Hellam (puzzles & games):

www.mathematics.hellam.net/

www.mathsgenie.co.uk

www.mathsbot.com

To help your child this year you can:

The following workbooks and revision guides are available for you to purchase on Parent pay:

- Key Stage Three Mathematics Higher Level: The Workbook (includes answers) by CGP
- Key Stage Three Mathematics Foundation Level: The Workbook (includes answers) by CGP
- Key Stage Three Mathematics Higher Level: The Study Guide by CGP
- Key Stage Three Mathematics Foundation Level: The Study Guide by CGP
MathsWatch Disc

You can also access additional Maths resources via the school website