Mathematics Topic Lists 2017-2018

First Form

Unit	Topics	Unit	Topics
1 Negative Numbers	Welcome to Maths	11 Fractions 2	Addition of Fractions
	Basic Arithmetic Review		Subtraction of Fractions
	BIDMAS		Mixed Operations
	BIDMAS Putting in Brackets		Geometry review
	Addition and Subtraction of Negatives		Algebra review
	Multiplication and Division of Negatives		Go over CA
	Mixed Operations	12 Constructions	Constructing Triangles
2 Angles	Types of Angles		Perpendicular Bisectors
	Drawing and Measuring angles		Angle Bisectors
	Angles about a Point and Opposite angles	13 Indices 1	Introduction of notation
	Angles in Triangles		Multiplication and Division Rules
	Angles and Parallel lines		Power of a Power rule
	Names and properties of Quadrilaterals	14 Fractions 3	Fractions of a given quantity
	Line and rotational symmetry of regular polygons		Comparing sizes of fractions
3 Algebra 1	Using symbols to express words		One quantity as a fraction of another
	Constructing Formulae	15 Area 1	Area and Perimeter of Rectangles
	Collecting Like Terms		Areas of Compound Rectangles
	Multiplying terms		Perimeters of Compound Rectangles
	Basic substitution		Area of a Triangle
	Rearranging basic formulae		Area of a Parallelogram
4 Approximations 1	Decimal Places	16 Percentages 1	The meaning of a percentage
	Calculations with Approximations		Finding a percentage of a quantity
	Basic 3 Significant Figure rounding		One quantity as a percentage of another
5 Decimals	Addition and Subtraction		Percentage increase/decrease multiplier method
	Multiplication and Division by powers of 10		Percentage Change, VAT
	Multiplication of two decimals		Mixed Percentage problems
	Division of a decimal by a whole number		Area and Percentages review lesson
	Approximations and Decimals review lesson	17 Fractions Decimals Percentages	Conversions between decimals and fractions
6 Fractions 1	Equivalent Fractions, Simplifying Fractions		Converting between all 3
	Proper to Improper and vice versa	18 Divisibility Rules	Divisibility rules
	Multiplication of Fractions	19 HCF LCM	Factors and Multiples
	Division of Fractions		Prime Numbers, Prime Factor Decomposition
	Mixed x/ fractions practice		HCF
	Fractions review lesson		LCM
	Christmas themed Maths puzzle lesson	20 Probability 1	Introduction to probability - use fractions
7 Coordinates	Axes and plotting coordinates		Certain and Impossible Events
8 Straight Line Graphs 1	Horizontal and Vertical Lines		Probability of an Event Not Occurring
	Diagonal Lines y = mx		Equally likely outcomes
9 Reflections	Reflections in Horizontal and Vertical Lines		Possibility Spaces
	Reflecting in y = x and y = -x	21 Algebra 2	Solving Linear Equations
	Finding Mirror Lines		Expanding brackets
10 Statistics 1	Bar Charts		
	Scatter Graphs		
	Interpolate and extrapolate from Scatter Graphs		