Year 7 Support SOW

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Chapter	Lesson
HT1	
1 Using numbers	1.1 The calendar
	1.2 The 12-hour and 24-hour clocks
	1.3 Managing money
	1.4 Positive and negative numbers
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	1.5 Adding negative numbers
	1.6 Subtracting negative numbers
	Problem solving – Where in the UK?
2 Sequences	2.1 Function machines
	2.2 Sequences and rules
	2.3 Finding terms in patterns
	2.4 The square numbers
	2.5 The triangular numbers
	Mathematical reasoning – Valencia Planetarium
3 Perimeter and area	3.1 Length and perimeter
	3.2 Area
	3.3 Perimeter
	and area of
	rectangles
	Problem solving – Design a bedroom
	HT2
4 Decimal numbers	4.1 Multiplying and dividing by 10, 100 and 1000
	4.2 Ordering decimals
	4.3 Estimates
	4.4 Adding and subtracting decimals
	4.5 Multiplying and dividing decimals
	Financial skills – Shopping for leisure
5 Working with numbers	5.1 Square numbers
	5.2 Rounding
	5.3 Order of operations
	5.4 Long and short multiplication
	5.5 Long and short division
	5.6 Calculations with measure-ments
	Problem

	solving – What is your carbon footprint?
6 Statistics	6.1 Mode, median and range
#	6.2 Reading data from tables and charts
	6.3 Using a tally chart
	6.Using data
	6.5 Grouped frequency
	6.6 Data collection
	Challenge – Trains in Europe
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7 Algebra	7.1 Expressions and substitution
	7.2 Simplifying expressions
	7.3 Using formulae
	7.4 Writing formulae
	Problem solving –Winter sports
8 Fractions	8.1 Equivalent fractions
	8.2 Comparing fractions
	8.3 Adding and subtracting fractions
	8.4 Mixed numbers and improper fractions
	8.5 Calculations with mixed numbers
	Challenge – Fractional dissection
9 Angles	9.1 Using the compass to give directions
3	9.2 Measuring angles
	3 3
	9.3 Drawing angles
	9.4 Calculating angles
	9.5 Properties of triangles and quadrilaterals
	Investigation – Snooker tables
	HT4
10 Coordinates and graphs	10.1 Coordinates and graphs
graphio	10.2 From mappings to graphs
	10.3 Naming graphs
	10.4 Graphs from the real world
	Challenge – Global warming
11 Percentages	11.1 Fractions and percentages

I	11.3 Percentages of a quantity
	11.4 Percentages with a calculator
	11.41 croomages with a calculator
	11.5 Percentage increases and decreases
	Financial skills – Income tax
12 Probability	12.1 Probability words
12 I Tobability	12.2 Probability scales
	12.2 1 Tobability scales
	12.3 Experimental probability
	Financial skills – School Easter Fayre
	HT5
13 Symmetry	13.1 Line symmetry
	13.2 Rotational symmetry
	13.3 Reflections
	13. 4 Tessellations
	Activity – Landmark spotting
14 Equations	14.1 Finding unknown numbers
	14.2 Solving equations
	14.3 Solving more complex equations
	14.4 Setting up and solving equations
	Challenge –Number puzzles
15 Interpreting data	15.1 Pie charts
	15.2 Comparing data by median and range
	15.3 Statistical surveys
	Challenge – Dancing competition
	HT6
16 3D shapes	16.1 3D shapes and nets
	16.2 Using nets to construct 3D shapes
	16.3 3D investigations
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17 Ratio	Problem solving – Delivering packages 17.1 Introduction to ratios
II Nau∪	17.1 Introduction to fatios
	17.2 Simplifying ratios
	17.3 Ratios and sharing
	17.4 Ratios and fractions
	Problem solving –Smoothie bar
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	Year 8 High SOW
Chapter	Lesson
	HT1
1 Working with numbers	1.1 Multiplying and dividing negative numbers
	1.2 Factors and highest common factor (HCF)
	1.3 Multiples and lowest common multiple (LCM)
	1.4 Powers and roots
	1.5 Prime factors
	Challenge –Blackpool Tower
2 Geometry	2.1 Parallel lines
	2.2 The geometric properties of quadrilaterals
	2.3 Translations
	2.4 Enlargements
	2.5 Constructions
	Challenge – More constructions
3 Probability	3.1 Mutually exclusive outcomes and exhaustive outcomes
	3.2 Using a sample space to calculate probabilities
	3.3 Estimates of probability
	Financial skills – Fun in the fairground
	HT2
4 Percentages	4.1 Calculating percentages
	4.2 Calculating percentage increases and decreases
	4.3 Calculating a percentage change
	Challenge – Changes in population
5 Congruent shapes	5.1 Congruent shapes
	5.2 Congruent triangles
	5.3 Using congruent triangles to solve problems
	Problem solving – Using scale diagrams to work out distances
6 Surface area and volume of prisms	6.1 Metric units for area and volume
	6.2 Surface area of prisms
	6.3 Volume of prisms
	Investigation – A cube investigation
	HT3
7 Graphs	7.1 Graphs from linear equations
	7.2 Gradient (steepness) of a straight line
	7.3 Graphs from quadratic equations

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- Space – to see where no one has seen before
reting graphs and diagrams
ve sized pie charts
er graphs and correlation
ng scatter graphs
- Football attendances
HT4
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terms
inding brackets
g algebraic expressions
a index potation
g index notation ical reasoning – Writing in algebra
ical reasoning – writing in algebra
o of lengths, areas and volumes
tional enlargement
scales
Map reading
HT5
ng and subtracting fractions
plying fractions and integers
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e –Guesstimates
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	Challenge – Planning a trip
14 Circles	14.1 The circumference of a circle
	14.2 Formula for the circumference of a circle
	14.3 Formula for the area of a circle
	Financial skills – Athletics stadium
	HT6
15 Equations	15.1 Equations with brackets
	15.2 Equations with the variable on both sides
	15.3 More complex equations
	15.4 Rearranging formulae
	Mathematical reasoning – Using graphs to solve equations
16 Comparing data	16.1 Grouped frequency tables
	16.2 Drawing frequency diagrams
	16.3 Comparing sets of data
	16.4 Misleading charts
	Problem solving – Why do we use so many devices to watch TV?

Year Group	Y9 Higher
	Rounding and approximations
HT1	LCM, HCF and prime numbers
	Percentages
	Expressions
	Standard form
	Fractions
	Statistics: Draw and interpret Charts
	Linear Equations
HT2	linear inequalities
	Subject of a formula
	Linear graphs
	Pythagoras' theorem.
HT3	Trigonometry in 2D
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	Factorising and solving quadratics
HT4	Quadratic and Cubic Graphs
	Polygons
	Ratio and proportion
HT5	Circles and Sectors
	Volume and surface area
	Compound units
HT6	Sequences
	Simultaneous Equations
	Exploring and applying probability
	Vectors
	Functions

Y9 Foundation
Rounding / Approximations
LCM, HCF and prime numbers
Percentages
Expressions
Standard form
Fractions
Statistics: Draw and interpret Charts
Linear Equations
linear inequalities
Subject of a formula
Linear graphs
Surds
Pythagoras' theorem.
Trigonometry
Expressions and quadratic equations
Quadratic and Cubic Graphs
Polygons
Ratio and proportion
Circles and Sectors
Area and volume
Compound units
Sequences
Simultaneous linear equations
Probability
Probability: Combined events
Vectors
Functions

Y10 Higher SOW

HT1
Cumulative frequency and box plots
Histograms
Negative / fractional Indices
Recurring decimals.
Surds
HT2
Vector geometry
Circle theorems
Linear graphs
Inequalities and regions
HT3
Factorising quadratics
Solving quadratic equations
Algebraic fractions
Iteration
HT4
Quadratic Sequences
Approximation and bounds
Probability
Sampling
HT5
Direct / Inverse proportion
Velocity/ Distance-time graph
Estimating area under a curve
Rates of change
HT6
simultaneous equations (one non-linear)
Geometric Progression
Functions
Trigonometry in non- right angled triangles
Proofs

Y10 Foundation SOW

HT1
7.7.7
Statistics: Tables and averages
Statistics: Draw and interpret Charts
FDP and recurring decimals
LCM, HCF and prime numbers
Surds
HT2
Vectors
Angles
Linear graphs
Linear Equations / Inequalities
Simultaneous Equations
HT3
Algebra: Expressions and equations
Powers and standard form
Perimeter, area and volume
HT4
Sequences
Approximations
Probability
Probability: Combined events
HT5
Ratio and proportion
Distance–time graphs
Velocity–time graph
Non -Linear Graphs
Constructions and loci
HT6
Pythagoras' theorem.
Trigonometry in 2D
Percentages
Transformations
Similar Shapes

Y11 Higher SOW
HT1
Direct / Inverse proportion
Velocity/ Distance-time graph
Estimating area under a curve
Rates of change
HT2
simultaneous equations (one non-linear)
Geometric Progression
Functions
Trigonometry in non- right angled triangles
Trigonometric functions
Proofs
НТ3
Cumulative frequency and box plots
Histograms
Negative / fractional Indices
Recurring decimals.
Surds
HT4
Vector geometry
Circle theorems
Linear graphs
Inequalities and regions
Quadratic inequalities
HT5
Factorising and solving quadratics
Solving quadratic equations using completing the square / Quadratic formula
Iteration
Probability

Transformation of graphs

Y11 Foundation SOW
HT1
Chapters
Approximations
Fractions
FDP and recurring decimals
LCM, HCF and prime numbers
Surds
Algebra: Expressions and equations
HT2
Linear graphs
Vectors
Angles
Linear Equations / Inequalities
Simultaneous Equations
HT3
Pythagoras' theorem.
Trigonometry in 2D
Percentages
Transformations
Similar Shapes
HT4
Powers and standard form
Perimeter, area and volume
Sequences
HT5
Ratio and proportion
Probability
Probability: Combined events