

	Set 5 – 7 to cover all supplementary and core		
	Set 3 – 4 to cover all supplementary and core, to move into enrichment as appropriate for the class		
	Set 1 – 2 to cover core and enrichment and ensure fluency in supplementary (as starters)		
Time	Supplementary: Revision (based on KS2)	Core	Enrichment
Number 1	Number bonds Money +/- Mental calculation strategies Multiplication facts Multiplication strategies Solve number problems	Place Value (inc. decimals) and ordering Column Addition/Subtraction (inc. decimals) Rounding Estimation Negative Numbers Worded problems Primes, factors, HCF, multiples, LCM using listing Square, square root, cube, cube root Multiplication and division (inc. decimals) Order of operations Worded Problems & the 4 basic operations	Different counting systems/bases Upper/Lower Bounds Direct proportion Alternative methods of multiplication Logic puzzles Prime factor decomposition Basic laws of indices
Algebra 1	Number patterns Algebraic notation Basic substitution	Substitution (inc. negatives) Form algebraic expressions Simplify algebraic notation Expanding brackets Solve word problems with expressions	Expand and simplify Using formula to solve real life problems
Shape 1	Measurement Lengths and units Areas of rectangles and triangles (square counting)	Convert between metric units Naming 2D and 3D shapes Properties of triangles and quadrilaterals (inc. reflective and rotational symmetry) Reflection, Rotation and Translation Perimeter of polygons Area of a rectangle and triangle	Tessellating shapes Tangram investigation Plans/Elevations Nets
Number 2	Division strategies What a fraction is Equal parts Factors and multiples Tenths and hundredths Fractional areas Decimals and problem solving Equivalence	Equivalent fractions Cancelling fractions Compare and order fractions/decimals Change mixed numbers to improve fractions and vice versa Fraction of a quantity +/- fractions same denominator +/- fractions with different denominator (simple) x/÷ fractions (simple) Worded Problems & the 4 basic operations Convert between fractions, decimals and percentages Percentage of quantities Calculate the percentage something changes by Find the whole when given the part and the percentage	Terminating and recurring decimals Fractions of tangrams +/- mixed numbers +/- fractions with different denominators (3 fractions) x/÷ mixed numbers Percentage increase and decrease (not using multipliers)

Algebra 2	Sequences with shape patterns	Sequences (not including nth term) Solving one- and two- step equations Worded Problems & the 4 basic operations	Solving more complex equations Factorise expressions Patterns and generalisation Simple Nth terms
Handling Data	Averages and range Drawing accurate charts and graphs Language of probability	Calculate the mean, median, mode and range from a list Construct tally charts Construct and interpret pictograms, bar charts and line graphs Group discrete data The probability scale Probabilities as fractions Questions involving coins dice and cards	Construct pie charts Algebraic mean questions Working with grouped data Experimental probability Probabilities with two dice
Shape 2	Parallel and perpendicular Angle facts	Draw, measure and name angles Find unknown angles (straight line, at a point, vertically opposite and triangle) Worded Problems	Volume Construction Basic Enlargement

	Set 5 – 6 to cover all supplementary and core		
	Set 3 – 4 to cover all supplementary and core, to move into enrichment as appropriate for the class		
	Set 1 – 2 to cover core and enrichment and ensure fluency in supplementary (as starters)		
Time	Supplementary: Revision (based on Y7 Core)	Core	Enrichment
Number 1	Factors, multiples and primes Multiplication and division FDP equivalence Order of operations Problem solving with fractions	Prime numbers and index notation Prime factorization to find HCF and LCM Squares and cubes Venn diagrams +/- fractions with different denominators x/÷ fractions Negative numbers	+/- mixed numbers x/÷ mixed numbers Egyptian fractions HCF/LCM generalisations
Algebra 1	Form algebraic expressions Substitution	Formulate and evaluate expressions Solve linear equations (inc. unknown on both sides) Form expressions, formula and equations from real-world situations	Solve more complex equations Change the subject of a formula Draw graphs in the form $y = mx + c$
Shape 1	Angle types Angle facts Area of rectangles and triangles	Construct accurate triangles and quadrilaterals Find unknown angles (inc. in parallel lines) Conversion between metric length units Conversion between metric area units Area and perimeter of composite shapes Area of parallelograms and trapeziums	Construct angle and perpendicular bisectors (& loci) Angles in polygons Area and circumference of a circle Simple angle proofs
Number 2	x/÷ powers of 10 Negative numbers Rounding Bar modelling with fractions +/- fractions x/÷ fractions Problem solving with fractions Percentages of quantities	Covert between FDP Percentage increase/decrease Finding 100% when given a part and the percentage Equivalent ratio Dividing a quantity into a ratio Simple direct proportion Rounding, significant figures and estimation	Simple inverse proportion Graphs of direct/inverse proportion Loan repayment Reverse percentage change
Algebra 2	Bar modelling with equations Substitution with negatives	Inequality notation and statements Expand brackets Factorise expressions Nth term of linear sequences Distance-Time Graphs Compound measure: DST	Solve inequalities Explore non-linear sequences Compound measure: MDV

Handling Data	Interpret statistical diagrams Mean, median, mode and range Rounding and estimation	Types of data Collect and organise data Interpret and compare statistical representations Draw pie charts and scatter graphs The three averages and the range – calculate and identify when it's best to use Two way tables Basic probability & relative frequency	The 3 averages and range from a frequency table Estimated mean from a grouped table Sampling methods Equal width histograms Misleading stats Misleading graphs
Shape 2	Area of rectangles and triangles	Area and circumference of a circle Visualise and identify 3D shapes and their nets Volume of cuboid and prism Cartesian coordinates	Volume of cylinder and composite solids Surface area of prisms Plans and Elevations 3D coordinates Euler's Formula Pythagoras' Theorem

Maths Puzzles: <https://krazydad.com/>