Taken from Maths mastery	Academic year 2017/18 Maths					
	Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
	YEAR 7					
	Solve word problems	Explain and investigate	Geometry	Fractions	Applications of algebra	Percentages and statistics
	Prerequisites					
	• Number bonds • Convert units • Money +/- • Measurement	• Mental strategies • Multiplication facts • Multiplication strategies • Solve number problems	• Lengths and units • Parallel and perpendicular • Work with angles • Division and the mean	• Equal parts • Factors and multiples • Tenths and hundredths • Word problems • Fractional areas	• Areas of rectangles and triangles • Number patterns • Algebraic notation • Triangle and quadrilateral properties	• Decimals and problem solving • Fractions of shapes • Equivalence • Order of operations
	All should					
	• Place value inc decimals • +/- inc decimals • Estimation • Perimeter • Word problems	• Factors, HCF, multiples, LCM • x/÷ inc decimals • Area of rectangles and triangles • Calculate the mean	• Draw, measure and name acute and obtuse angles • Find unknown angles (straight line, at a point, vertically opposite) • Properties of triangles and quadrilaterals	• Equivalent fractions • Compare and order fractions and decimals • Convert between mixed numbers and improper fractions • Fractions of a quantity • x/÷ fractions	• Order of operations • Substitution • Simplify algebraic expressions • Solve word problems with expressions • Sequences (term to term, not nth term)	• Construct and interpret statistical diagrams inc pie charts • Convert between FDP • % of a quantity • Find the whole given the part and the %
	YEAR 8					
	Number	Algebraic expressions	2d geometry	Proportional reasoning	3d geometry	Statistics
	Prerequisites					
	• Factors, multiples and primes • Multiplication and division • Fraction equivalence and calculations	• Problem solving with fractions • Order of operations • Form algebraic expressions • Substitution	• Angle types • Angle facts • Rectangle and triangle area • x/÷ by powers of 10 • Problem solving with negative numbers	• Rounding • Bar modelling with fractions • Fraction x/÷ • Bar modelling with equations • FDP equivalence	• Rectilinear areas • Fraction +/- • Problem solving with fractions • Percentage increase and decrease • Substitution with negatives	• Statistical diagrams • Ratio and rate • The mean • Calculator skills and rounding
	All should					
	• Primes, indices • Prime factorisation • LCM, HCF, squares, cubes • Venn diagrams • Enumerating sets • +/- fractions	• Negative numbers and inequality statements • Formulate and evaluate expressions • Linear equations • Expressions and equations from real world situations • Linear sequences, nth terms	• Draw accurately triangles and quadrilaterals • Find unknown angles inc parallel lines • Conversion between length units and between area units • Area and perimeter of composite figures • Areas of parallelograms and trapeziums	• Convert between %, vulgar fractions and decimals • % increase and decrease • Find the whole given part and % • Ratio (equivalent, of a quantity) and rate • Speed, distance, time	• Rounding, significant figures and estimation • Circumference and area of a circle • Visualising and identifying 3d shapes from their nets • Volume of a cuboid, prism, cylinder, composite shapes	• Collect and organise data • Interpret and compare statistical representations • Mean, median and mode • Range and outliers