Year 7 Summer Exam Revision List

Year 7 Assessment 1	Learning objective
1.3 1 Using numbers	To carry out calculations from information given in charts and tables (Numeracy)
	To know and use financial vocabulary (Numeracy)
	To order positive and negative numbers using a number line
	To use and apply comparison symbols such as > (greater than) and < (less than)
	To calculate addition, subtraction, multiplication and division problems involving directed numbers
	To use and apply directed number calculations in a real-life situation
1.3 5 Working with numbers	To recognise and use square numbers up to 225 (15^2) and corresponding square roots
	To round numbers to more than one decimal place
	To round numbers to one or two significant figures
	To use the conventions of BIDMAS to carry out calculations
	To use an efficient written method of multiplication without a calculator
	To use an efficient written method of division without a calculator

Year 7 Assessment 2	Learning objective
1.3 7 Using algebra	To use algebra to write simple expressions and recognise equivalent expressions
	To substitute numbers into expressions to work out their value
	To apply arithmetic rules to algebraic expressions
	To use substitution in the context of formulae
	To construct formulae from contextual situations (Numeracy)
	To use a formula to calculate costs
2.3 10 Algebra	To simplify algebraic expressions involving the four operations of arithmetic
	To simplify expressions by collecting up like terms
	To multiply out brackets in an expression
	To identify and manipulate algebraic expressions
	To write algebraic expressions involving powers
	To use and apply algebraic manipulation skills in a range of contexts

Year 7 Assessment 3	Learning objective
	To use function machines to generate inputs and outputs (Numeracy)
	To use given inputs and outputs to work out a function (Numeracy)
	To recognise, describe and generate linear sequences
	To identify missing terms in a sequence

1.3 2 Sequences	To identify the nth term of a linear sequence
	To use the nth term to work out any term in a sequence
	To explore square and triangular numbers as sequences (Numeracy)
	To know and generate the Fibonacci sequence and Pascal's triangle (Numeracy)
	To apply knowledge of sequences in a context
1.3 4 Decimal numbers	To multiply and divide decimal numbers by powers of 10
	To use rounding to estimate answers to calcuations, to spot possible errors
	To use place value (Numeracy)
	To order decimals, including numbers with different decimal places
	To add and subtract decimal numbers
	To multiply and divide decimal numbers
	To solve multi-step problems involving decimals in a familiar context
1.3 10 Co-ordinates and graphs	To use coordinates to identify and locate position points in all four quadrants
	To recognise and draw linear graphs with values of x and y
	To use conversion graphs
Year 7 Assessment 4	**Learning objective**
1.3 3 Perimeter, area and volume	To use a simple formula to work out the perimeter of a rectangle
	To use a simple formula to work out the area of a rectangle
	To work out the perimeter and area of compound rectilinear shapes by using simple formulae
	To calculate the area of a triangle
	To calculate the area of a parallelogram
	To calculate the area of a trapezium
	To calculate the surface area of cubes and cuboids
	To calculate the volume of cubes and cuboids
	To calculate perimeters and areas in a real-life context
1.3 5 Working with numbers	To convert between common metric units (Numeracy)
	To use measurements in calculations (Numeracy)
	To recognise and use appropriate metric units (Numeracy)
	To apply number skills in real life contexts (Numeracy)
1.3 8 Fractions	To find common equivalent fractions
	To write fractions in their simplest form
	To compare and order two fractions (Numeracy)
	To add and subtract fractions with different denominators
	To convert between mixed numbers and improper fractions

	Learning objective
	To add and subtract simple mixed numbers with different denominators
	To explore fractions in the context of the part-whole relationship
2.3 12 Fractions and Decimals	To add and subtract fractions and mixed numbers
	To multiply a fraction or a mixed number and an integer
	To divide a fraction or a mixed number by an integer
	To divide an integer or a mixed number by a fraction
	To multiply with combinations of large and small numbers mentally
	To divide combinations of large and small numbers mentally
	To use mental calculation strategies and estimation in real-life situations
Year 7 Assessment 5	**Learning objective**
1.3 11 Percentages	To know equivalences between common fractions, decimals and percentages
	To understand and use percentages greater than 100%
	To calculate a fraction of a quantity without a calculator
	To calculate a percentage of a quantity without a calculator
	To calculate a percentage of a quantity with a calculator
	To know when it is appropriate to use a calculator
	To calculate the result of a percentage change
	To work out the result of a simple percentage change
	To apply percentage skills in a real-life context (Numeracy, financial skills)
1.3 9 Angles	To use a protractor to measure an angle
	To use a protractor to draw an angle
	To know the properties of parallel and perpendicular lines
	To calculate angles on a line
	To calculate angles at a point
	To identify vertically opposite equal angles
	To calculate angles in parallel lines
	To know that the angle sum in a triangle is 180°
	To know that the angle sum in a quadrilateral is 360°
	To know and use the properties of triangles
	To know and use the properties of quadrilaterals
	To use angles construction and measuring skills with confidence, fluency and accuracy