

**ASSESSMENT GRID**

**SUBJECT Mathematics**

**YEAR 7**

YEAR 7	1 Number	2 Algebra	3 Ratio, proportion and rates of change	4 Geometry and measures	5 Probability	6 Statistics
Y7.9	<p>I can multiply mixed numbers together.</p> <p>I understand the concept of repeated percentage increase and decrease</p>	<p>I can set up and solve more complex algebraic equations including fractions and negative terms.</p>	<p>I can use ratio to share in three quantities.</p>	<p>I can work out area of compound shapes which include trapezia, triangles and other rectilinear shapes.</p>	<p>I can work out relative frequency and understand the difference between theoretical and experimental data.</p>	<p>I recognise the dangers of making predictions beyond the data set.</p>
Y7.8	<p>I can multiply fractions together.</p> <p>I understand percentage increase and decrease with multipliers.</p> <p>I can express numbers as products of prime factors.</p>	<p>I can use algebra to set up and solve equations.</p>	<p>I can use ratio to share in two quantities.</p>	<p>I can work out area of trapezia.</p> <p>I can construct and interpret stem and leaf diagrams.</p> <p>I can construct and interpret two way tables.</p>	<p>I understand theoretical data and can solve associated probability questions.</p>	<p>I recognise correlation, can identify outliers and use lines of best fit to make predictions.</p>
Y7.7	<p>I can multiply a fraction by an integer and convert between mixed numbers and improper fractions.</p> <p>I can add and subtract fractions and mixed numbers.</p> <p>I can convert between fractions, decimals and percentages.</p> <p>I understand percentage increase and decrease.</p> <p>I can multiply and divide negative numbers.</p>	<p>I can substitute into algebraic expressions and formulae.</p> <p>I can solve two step equations.</p>	<p>I can use ratio to compare quantities.</p>	<p>I can work out area of triangles and parallelograms. I can calculate area and perimeter of compound shapes.</p> <p>I can calculate the volume and surface area of cubes and cuboids.</p> <p>I can reflect shapes given reflection lines and rotate shapes given centre of enlargement, direction and angle.</p> <p>I can construct and interpret pie charts.</p> <p>I can interpret plans and elevations and draw nets of 3D shapes.</p>	<p>I can use sample space diagrams to list outcomes and find associated probabilities.</p>	<p>I can plot scatter graphs.</p>

				I can use a variety of angle rules including those contained within parallel lines.		
Y7.6	<p>I can multiply decimals by powers of 10.</p> <p>I can order decimals with different decimal places. I can add and subtract decimals.</p> <p>I can multiply two decimal numbers.</p> <p>I can find a fraction of an amount.</p> <p>I can convert fractions into decimals.</p> <p>I can find highest common factors and lowest common multiples.</p>	<p>I can understand square, cube and triangular numbers as sequences.</p> <p>I can use conventions of BIDMAS.</p> <p>I can write simple algebraic expressions.</p> <p>I can recognise and draw horizontal, vertical and other basic graphs.</p> <p>I can understand and draw distance time graphs.</p> <p>I can simplify expressions as well as multiply numbers, letters and expressions.</p>	I can see the connection between ratio and fractions.	<p>I can use and convert common metric units.</p> <p>I can use a protractor to measure and draw angles.</p> <p>I can construct triangles given limited information.</p> <p>I can calculate angles in triangles, on lines and at points as well as in quadrilaterals and use vertically opposite angles.</p>	I can use the probability scale and can find the probability of events happening or not.	<p>I can calculate and use the mean of a set of data</p> <p>I can compare distributions using average and range.</p>
Y7.5	<p>I can find equivalent fractions and simplify fractions.</p> <p>I can identify factors, multiples and primes.</p>	<p>I can use function machines to generate and describe sequences.</p> <p>I can use coordinates to plot in four quadrants.</p> <p>I can solve one step equations.</p>	I can understand ratio notation.	<p>I can work out perimeter and area of rectangles using simple formulae.</p> <p>I recognise rotational and reflective symmetry.</p>	I can use the probability scale	I can interpret and compare data shown in bar charts and line graphs.
Y7.4	Order positive and negative numbers using a number line and inequality symbols.	I can plot coordinates in one quadrant.	I can compare one number to another.	I can name common 3D shapes.	I know events that have even chance.	I can draw and interpret frequency tables and charts.
Y7.3	I can understand the place value of each digit and can use it to order to 100.	I can identify and continue a simple number sequence and shape pattern	<p>I know that fractions are several parts of a whole</p> <p>I can recognise 2 simple fraction equivalents.</p>	I can name most common 2d shapes and describe them using the correct vocabulary.	I understand what the word probability means and can give simple examples	I can interpret and draw a tally chart and a pictograph.

