

ASSESSING STUDENT PROGRESS IN MATHS

	Starting Line	Accelerating	High Speed	RECORD BREAKING!
Number	<ul style="list-style-type: none"> Can use decimals and fractions and understand percent as parts of a hundred in reference to discussing weights and distance changes 	<ul style="list-style-type: none"> Can use equivalence between fractions, decimals and percentage when exploring problems Can round to different degrees of accuracy 	<ul style="list-style-type: none"> Can discuss and solve problems involving percentage change – e.g. increasing speed or reducing the mass of a rocket car Can make appropriate and useful estimates 	<ul style="list-style-type: none"> Can apply a wide range of number skills to design make and problem-solving tasks Can use rounding and approximation to help others understand complex data
Shape Space & Measures	<ul style="list-style-type: none"> Can read and follow scale drawings with measurements 	<ul style="list-style-type: none"> Can find area and volume of basic cube and cuboid shapes Can solve problems involving converting between measures 	<ul style="list-style-type: none"> Can use terms inc. point, vertices, perpendicular, symmetry, radius, circumference, etc. Can label sides and angles with standard conventions 	<ul style="list-style-type: none"> Can interpret plans and elevations of 3D shapes Can measure circumference, radius, area and volume of circles and cylinders
Statistics	<ul style="list-style-type: none"> Understands difference between line and bar graphs Can read values from graphs Can tally and tabulate results and other experimental data 	<ul style="list-style-type: none"> Can calculate a mean from a set of data Can interpret and construct a simple line graph 	<ul style="list-style-type: none"> Calculate mean, median and mode from a list of numbers and a frequency table Can construct and interpret a range of chart types 	<ul style="list-style-type: none"> Can analyse and compare different set of data and draw conclusions Can explain the advantages and disadvantages of using the mean, media, etc.
Geometry	<ul style="list-style-type: none"> Can measure & draw angles Can name common 2D shapes 	<ul style="list-style-type: none"> Can use a protractor with precision Can classify the 2D shapes that make up wheels and car bodies Can use a scale factor 	<ul style="list-style-type: none"> Can solve geometric problems Can identify properties of 3D shapes 	<ul style="list-style-type: none"> Can identify and construct shapes on 2D and 3D coordinate axes including enlargement Use scale drawing confidently
Algebra	<ul style="list-style-type: none"> Can perform basic formula based calculations 	<ul style="list-style-type: none"> Can identify and use variables Knows rules of algebraic notation 	<ul style="list-style-type: none"> Can solve a linear equation Can use substitution in formulae and expression Plot and interpret distance/time graphs & speed/time graphs 	<ul style="list-style-type: none"> Solve a variety of linear equations Plot and interpret distance/time graphs & speed/time graphs using data they collect themselves
Ratio and Proportion	<ul style="list-style-type: none"> Can discuss 'acceleration' as a change of speed 	<ul style="list-style-type: none"> Can understand force arrows as showing force and direction Can explain and show evidence of acceleration in graphs and charts 	<ul style="list-style-type: none"> Can use force arrows/vectors in designs and presentations Can use ratio notation Can solve problems involving speed 	<ul style="list-style-type: none"> Can use ratio and proportion to describe a situation Knows the connection between speed, distance and time