What progress am I making in Maths?
How can I get better in Maths and progress to the next level?

Year 8	Acquiring	Developing	Securing	Consolidating	Extending
Number	I can identify a prime number I can round to the nearest 1, 10, 100… I can add and subtract through zero using a number line	I can draw a factor tree I can round to decimal places I can identify examples of standard form I can add and subtract negative numbers I can multiply and divide negative numbers I understand the order of operations	I can express a number as a product of its prime factors I can round to significant figures I can switch between numbers and standard form I can use BIDMAS with powers I can use square and cube numbers	I can use prime factorisation to find LCM and HCF I can estimate by rounding to significant figures I can find upper and lower bounds I can change 12.6×10^4 to standard form	I can find a number given the LCM and HCF I can write the error interval from rounding I can multiply and divide standard form
Algebra	I can simplify algebraic expressions by adding and subtracting, multiplying and dividing I can find the next term in a sequence I can solve a one-step equation	I can simplify expressions with powers I can substitute positive numbers into formulae I can write the rule of a sequence in word I can solve a two-step equation, which include brackets	I can expand single brackets I can factorise into a single bracket I can simplify indices using multiplication and division I can substitute negative numbers into formulae I can find the nth term of an ascending sequence I can solve equations when the unknown is on both sides	I can rearrange formulae using one step I can use the zero index I can simplify indices raised to a power I can find the nth term of a descending sequence I can use the nth term to find the 100th term I can use a graph to solve equations	I can rearrange formulae using more than one step I can simplify e.g. $(3x^4)^2$ I can use the nth term to deduce if a term is in the sequence
Shape, Space & Measure	I can find lines of symmetry I can measure acute angles with a protractor	I can find the order of rotational symmetry I can use scale factors in maps	I can reflect a shape in a line I can translate shapes I can find a bearing Find alternate angles and	I can enlarge shapes from a centre of enlargement I can rotate shapes	I can describe transformations using key words I can solve

	Find angles in a straight line, around a point, in a triangle and quadrilateral I can find the area of a square, rectangle triangle, parallelogram	I can measure all angles using a protractor I can identify vertically opposite angles I can find the area of a trapezium I can find the volume of a prism	corresponding angles Find the total interior angles in a polygon I can find the area and circumference of a circle I can find the area of a compound shape	I can draw plans and elevations Solve missing angles in polygon questions I can find the area of a semi-circle I can find the volume of a cylinder	geometric problems involving bearings I can find a shape from plans and elevations I can find the perimeter of a semi-circle
Probability & Statistics	I can use the language of probability I can construct a frequency table Find the mean, median, mode and range from a list of data	I understand the probability is between 0-1 I can work out the probability of a single event I can identify types of data Find the mode and range from a frequency table	I can list all outcomes of an experiment using a table I can work out theoretical probabilities for events with equally likely outcomes I can plot a scatter graph I can find the median from a frequency table I can compare two groups of data	I can find the relative frequency of an event I can construct a histogram I can identify positive and negative correlation I can find the mean from a frequency table	I can use relative frequency to inform predictions I can find the estimated mean from a frequency table
Ratio and Proportion	I can convert between percentages and decimals I can find a fraction of an amount I can simplify fractions I can express the division of a quantity into a ratio I can calculate with proper fractions	I can convert between mixed numbers and improper fractions I can connect ratios to fractions I can simplify a ratio I can find a percentage of an amount	I can convert between fractions, decimals and percentages freely I can solve recipe problems I can share an amount into a ratio I can find speed, distance and time I can increase and decrease by a percentage	I can identify if a decimal is terminating or recurring I can use compound units by converting first I can calculate with mixed numbers	I can find mass, density and volume I can convert between units of speed I can use reverse percentages I can use simple interest