





Yr8: ASK Yourself!

Subject: Maths
Unit: Autumn Term

	Launching 1-2	Developing 3-4	Progressing 5-6	Mastering 7-9
 S skills				
	I need to be able to use the skills of TENSILE in maths.	I use TENSILE skills sometimes in maths.	I can use each of the TENSILE skills confidently.	I can expertly use TENSILE and see how each skill helps me learn.
 K knowledge				
Adding and Subtracting Fractions	I can confidently find equivalent fractions and simplify fractions.	I can confidently add and subtract fractions with the same denominators.	I can confidently add and subtract fractions with different denominators.	I can confidently add and subtract mixed numbers and improper fractions.
Further Order of Operations	I can confidently multiply to numbers together up to 10×10 .	I can confidently work out the answer to questions involving two operations such as $3 + 4 \times 2 = 11$.	I can confidently work out the answer to questions which have brackets and indices involved.	I can solve problems involving BIDMAS such as placing brackets in the correct place to make an answer correct.
Averages	I can confidently define and calculate the mode, median, mean and range of a set of data.	I can confidently justify the use of each average and calculate the inter quartile range and draw a resulting box plot.	I can confidently identify obvious outliers from a set of data and understand the effect an outlier would have on each average.	I can understand and describe the effect of adding additional data to each average.
Multiplying and Dividing Fractions	I can confidently find equivalent fractions and simplify fractions.	I can confidently multiply and divide fractions.	I can confidently multiply and divide mixed numbers and improper fractions.	I can confidently recognise multiply and divide fractions in context.
Functions	I can confidently use one and two stage function machines to give outputs from any given input.	I can confidently use one and two stage function machines to create inputs from any given output.	I can confidently find the operation from a function machine given outputs and inputs.	I can confidently state the range of answers for any given function.

Equations	I can confidently solve simple linear equations with one variable.	I can confidently solve two step linear equations.	I can confidently solve more complex linear equations with fractions, brackets or unknowns on both sides.	I can confidently formulate and solve linear equations and rearrange any given formula to change the subject.
Introducing Recurring Decimals	I can confidently identify a recurring decimal.	I can identify the differences between a terminating and recurring decimal.	I can confidently work out the value of any given decimals from a fraction through division.	I can investigate recurring decimals and the patterns that they form. E.g. 7ths and 9ths.