

Learning Programme – Mathematics – 2nd Year

Topic/ Content	Objectives/Skills	Homework	Assessment	Success Criteria (for E/S/D at KS3)	Stretch & Challenge (Thirst for Learning)
	Michaelmas Second Half Term				
Number 1	Multiplying and divide by powers of 10 Understand the effects of multiplying and dividing by numbers between 0 and 1.	Students will be set regular homework that is either teacher marked, peer marked, self-marked or computer marked.	Half Term Test (two weeks before Christmas holiday) Two to three teacher marked pieces of homework will be set each half-term.	Mainly determined from Half-Term test, however, class work & homework may also be used. Grade boundaries for E, S & D dependent on overall scores across the year group.	Students will be challenged using extension questions on the topics they are studying, designed to further develop their ability to solve multi-staged problems.
	Use a calculator and other technologies to calculate results accurately and then interpret them appropriately. Round numbers and measures to an appropriate degree of accuracy [for example, to a number of decimal places or significant figures] and use to make estimates.				
	Interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively and work with percentages greater than 100%. Solve problems involving percentage change, including: percentage increase, decrease and original value problems and simple interest in financial mathematics.				
	Understand that a multiplicative relationship between two quantities can be expressed as a ratio or a fraction. Relate the language of ratios and the associated calculations to the arithmetic of fractions and to linear functions. Solve problems involving direct and inverse proportion.				