Curriculum Map	Subject: Mathematics		
Theme / Area Covered	Unit 2 Calculating		
	Age Related Targets – Year 7	Age Related Targets – Year 8	Age Related Targets – Year 9
Key Objectives / Learning Pathway Emerging	Multiply and divide positive integers by powers of 10 Multiply and divide decimals by powers of 10 Add and subtract numbers up to 6 digits using a formal written method Add and subtract decimals with the same, and different, number of decimal places Multiply and divide a number up to 4 digits by a one- or two-digit number using a formal written method Transform a multiplication involving decimals to a corresponding multiplication with integers Multiply a large number, up to 4 digits, by a decimal of up to 2dp using integer multiplication Use a scientific calculator to calculate with negative numbers	Use a formal method to divide a decimal by an integer <10 Use a formal method to multiply a decimal by an integer >10 Transform a calculation involving the division of decimals to an equivalent division involving integers Apply the order of operation to multi-step calculations involving up to four operations and brackets Subtract a number from a smaller number Add a positive number to a negative number Subtract a positive number from a negative number Add a negative number Subtract a negative number Multiply a positive number by a negative number Multiply a negative number by a negative number Divide a positive number by a negative number Divide a negative number by a negative number Square and cube positive and negative numbers	Use a scientific calculator to calculate with fractions both positive and negative Understand how to use order of operations including powers Understand how to use order of operation including roots

Key Objectives / Learning Pathway Developing	Use a formal method to divide a decimal by an integer <10 Use a formal method to divide a decimal by an integer >10 Transform a calculation involving the division of decimals to an equivalent division involving integers Apply the order of operation to multi-step calculations involving up to four operations and brackets Subtract a number from a smaller number Add a positive number to a negative number Subtract a positive number from a negative number Add a negative number Subtract a negative number Multiply a positive number by a negative number Multiply a negative number by a negative number Divide a positive number by a negative number Divide a negative number by a negative number Square and cube positive and negative numbers	Use a scientific calculator to calculate with fractions both positive and negative Understand how to use order of operations including powers Understand how to use order of operation including roots	Calculate with positive indices Calculate with roots Calculate with positive indices in the context of standard form Use a calculator to evaluate numerical expressions involving powers Use a calculator to evaluate numerical expressions involving roots

Key Objectives / Learning Pathway **Securing**	Use a scientific calculator to calculate with fractions both positive and negative Understand how to use order of operations including powers Understand how to use order of operation including roots	Calculate with positive indices Calculate with roots Calculate with positive indices in the context of standard form Use a calculator to evaluate numerical expressions involving powers Use a calculator to evaluate numerical expressions involving roots	Add numbers written in standard form Subtract numbers written in standard form Multiply numbers written in standard form Divide numbers written in standard form Use standard form on a scientific calculator including interpreting the standard form display Understand the difference between truncating and rounding Identify the minimum and maximum values of an amount that has been rounded (to nearest x, xdp and xsf) Use inequalities to describe the range of values for a rounded value Solve problems involving the maximum and minimum values of an amount that has been rounded
Key Objectives / Learning Pathway **Excelling**	Calculate with positive indices Calculate with roots Calculate with positive indices in the context of standard form Use a calculator to evaluate numerical expressions involving powers Use a calculator to evaluate numerical expressions involving roots	Add numbers written in standard form Subtract numbers written in standard form Multiply numbers written in standard form Divide numbers written in standard form Use standard form on a scientific calculator including interpreting the standard form display Understand the difference between truncating and rounding	

		Identify the minimum and maximum values of an amount that has been rounded (to nearest x, xdp and xsf) Use inequalities to describe the range of values for a rounded value Solve problems involving the maximum and minimum values of an amount that has been rounded	