	Subject: Mathematics			
Theme / Area	Calculations End Points			
Covered				
	Age Related Targets – Year 7	Age Related Targets – Year 8	Age Related Targets – Year 9	
Key Objectives / Learning Pathway Emerging	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. 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 or 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 or subtract a positive number to a negative number Add or subtract negative numbers Multiply a positive or negative number by a negative number Divide a positive or 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 or 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 or subtract a positive number to a negative number Add or subtract negative numberss Multiply a positive or negative number by a negative number Divide a positive or 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 or subtract numbers written in standard form Multiply or 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 or subtract numbers written in standard form Multiply or 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	