Stage 6 -Number Programme of Study Objectives	Comment
Number – Number and place value	
Use negative numbers in context	
Calculate intervals across 0	
Identify and represent and estimate numbers using different formats (10,000,000)	
Read, write, order and compare numbers up to 10,000,000	
Determine the value of each digit up to 10,000,000	
Round any number (including up to 2 d.p.) to the nearest integer	
Number - Addition and Subtraction	
Practice mental and written methods with large numbers to increase fluency	
Explore the 4 operations using brackets	
Use estimating to check answers (all four operations)	
Number – Multiplication and Division	
Identify common factors, common multiples and prime numbers	
Multiply numbers up to 4 digits by a 2 digit whole number using an efficient written method	
Mentally solve 4 operation calculations	
B.O.D.M.A.S	
Divide numbers up to 4 digits by a 2 digit whole number using efficient written methods including remainders, fractions or rounding by context	
Use estimating to check answers (all four operations)	
Number – Fractions (including decimals)	
Use common factors to simplify fractions. Use common multiples to express fractions in the same denomination	
Compare and order fractions including fractions >1	
Associate a fraction with ÷ to calculate decimal fraction equivalents e.g. 0.375 = 3/8	
Add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions	
Multiply simple pairs of proper fractions writing the answer in its simplest form e.g ¼ × ½ = 1/8	
Divide proper fractions by whole numbers e.g ⅓ ÷ 2 = ⅙	
Recall and use equivalences between simple fractions, decimals and %	
Round decimals to 3 decimal places	
Identify the value of each digit in numbers up to 3 d.p.	
Multiply and divide numbers by 10, 100 and 1000 giving the answers with up to 3 d.p.	
Multiply U.txU and U.thxU or TU	
Solve problems involving the calculation of percentages and the use of percentages for comparison	
Solving problems involving the relative sizes of two quantities where	

missing values can be found using integer multiplication and division facts	
Solve problems involving similar shapes where the scale factor is known r can be found	
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	
Algebra	
Use simple formulae	
Generate and describe linear number sequences	
Express missing number problems algebraically	
Find pairs of numbers that satisfy an equation with two unknowns	
Use two variables to find all possibilities combinations	