College Road
Primary School

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and Division Recall and Use		Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Recall multiplication and division facts for multiplication tables up to 12 × 12. Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. Recognise and use factor pairs and commutativity in mental calculations	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19. Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	Identify common factors, common multiples and prime numbers. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Multiplication and Division Calculations		Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two digit numbers. Multiply and divide numbers mentally drawing upon known facts. Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context. Perform mental calculations, including with mixed operations and large numbers.

Multiplication and Division Problem Solving	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rate Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.	Solve problems involving addition, subtraction, multiplication and division. Use their knowledge of the order of operations to carry out calculations involving the four operations

Autumn			Block 3 Week 9 – 12	Block 4 Week 9-11	Block 3 Week 6 - 8	Block 2 Week 3 - 7
Spring		Block 2 Week 3 - 7	Block Week 1 – 3	Block 1 Week 1 - 3	Block 1 Week 1 - 3	
Summer	Block 1 Week 1 - 3					

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Small Steps Autumn			1. Multiplication – equal groups 2. Use arrays 3. Multiples of 2 4. Multiples of 5 and 10 5. Sharing and Grouping 6. Multiply by 3 7. Divide by 3 8. The 3 times table	1. Multiples of 3 2. Multiply and divide by 6 3. 6 times tables and division facts 4. Multiply and divide by 9 5. 9 times table and division facts 6. 3,6 and 9 times table 7. Multiply and divide by 7 8. 7 times table and division facts 9. 11 times table and division facts 10. 12 times table and division facts 11. Multiply by 1 and 0 12. Multiply 3 numbers	1. Multiples 2. Common multiples 3. Factors 4. Common factors 5. Prime numbers 6. Square numbers 7. Cube numbers 8. Multiply by 10,100,1000 9. Divide by 10, 100, 1000 10. Multiples of 10, 100 and 1000	1. Add and subtract integers 2. Common factors 3. Rules of divisibility 4. Primes of 100 5. Primes to 100 6. Square and cube numbers 7. Multiply up to a 4 digit number by a 2 digit number 8. Solve problems with multiplication 9. Short division 10. Division using factors 11. Introduction to long division 12. Long division with remainders 13. Solve problems with division 14. Solve multi-step problems 15. Order of operations 16. Mental calculations and estimation 17. Reason from known facts

Small Steps Spring		1. Recognise equal groups 2. Make equal groups 3. Add equal groups 4. Introduce the multiplication symbol 5. Multiplication sentences 6. Use arrays 7. Make equal groups (grouping) 8. Make equal groups sharing 9. The two times table 10. Divide by 2 11. Doubling and halving 12. Odd and even numbers 13. The 10 times table 14. Divide by 10 15. The 5 times table 16. Divide by 5 17. The 5 and 10 times table	1. Multiple of 10 2. Related calculations 3. Reasoning about multiplication 4. Multiply a 2 digit by 1 digit number (no exchange) 5. Multiply a 2 digit number by 1 digit number – with exchange 6. Link multiplication and division 7. Divide a 2 digit number by a 1 digit number- no exchange 8. Divide a 2 digit number by a 1 digit number flexible partitioning	1. Factor pairs 2. Use factor pairs 3. Multiply by 10 4. Multiply by 100 5. Divide by 10 6. Divide by 100 7. related facts multiplication and division 8. Informal written methods for multiplication 9.mulitiply a 2 digit number by a 1 digit number 10. Multiply a 3 digit number by a 1 digit number 11. Divide a 2 digit number by a 1 digit number 12. Divide a 2 digit number by a 1 digit number (with remainders) 13. Divide a 3 digit number by a 1 digit number 14. Correspondence problems 15. Efficient multiplication	1. Multiply up to a 4 digit number by a 1 digit number 2. Multiply a 2 digit number by a 2 digit number (area model) 3. Multiply a 2 digit number by a 2 digit number 4. Multiply a 3 digit number by a 2 digit number 5.Mulitply a 4 digit number by a 2 digit number 6. Solve problems with multiplication 7. Short division 8. Divide a 4 digit number by a 1 digit number 9. Divide with remainders 10. Efficient division 11. Solve problems with multiplication and division	

Small Steps Summer	1. Count in 2s 2. Count in 10s 3. Count in 5s 4. Recognise equal groups 5. Add equal groups 6. Make Arrays 7. Make doubles 8. Make equal groups – grouping 9. Make equal groups - sharing					