Maths –
Whole School Overview

SILVERDALE PRIMARY ACADEMY
Becoming the Ultimate...

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Numbers to 10 Shape	Numbers to 20 Patterns	Shape & Space Working with numbers to 10	Time Doubling & Halving	Measures Addition & Subtraction	Problem Solving Consolidation
1	Number & Place Value	Addition & Subtraction	Multiplication & Division	Shape Position & Direction	Fractions	Time Consolidation
2	Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions Shape	Shape SATs Consolidation	Position & Direction Statistics
3	Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions	Time	Shape Position & Direction
4	Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions & Decimals Statistics	Time	Shape Position & Direction
5	Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions, Decimals & Percentages	Time Statistics	Geometry Consolidation
6	Number & Place Value	Fractions & Decimals Statistics	Algebra Shape	Revision	SATs Statistics	Investigations

Multiplication & Division

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Progressive Skills		Solve one-step problems involving multiplication by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. Solve one-step problems involving division by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	**Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers**. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. **Solve problems involving multiplication and division, using concrete materials and mental methods.**	**Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.** **Write and calculate mathematical statements for multiplication and division using the multiplication tables that he/she knows, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods.** Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are	**Recall multiplication and division facts for multiplication tables up to 12 x 12.** Use place value, and 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. Multiply two-digit and three-digit numbers by a one-digit number using a formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit numbers,	**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. 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	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,

			Solve problems involving multiplication and division using arrays, repeated addition and multiplication and division facts, including problems in contexts.	connected to m objects.	integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	short division and interpret remainders appropriately for the context. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. Recognise and use square numbers and the notation for squared (2). Recognise and use cube numbers and the notation for cubed(3). **Solve problems involving multiplication and division, including using his/her knowledge of factors and multiples, squares and cubes.** Solve problems involving addition, subtraction, multiplication and division, and a combination of these, including understanding the	including with mixed operations and large numbers. Identify common factors, common multiples and prime numbers. Use his/her knowledge of the order of operations to carry out calculations involving the four operations. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Solve problems involving addition, subtraction, multiplication and division. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate

						meaning of the equals sign. **Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.**	degree of accuracy.