

Maths Progression of Skills (based on White Rose and Power Maths)

	F1	F2	ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and Division: Recall, Represent, Use	To learn about sharing between groups of people/toys. (Autumn/Spring/Summer Term)	To be introduced to the concepts of sharing equally and doubling. (Summer Term) To understand concept of odd and even numbers. (Summer Term)	Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally	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 three four and eight multiplication tables	Recall multiplication and division facts for multiplication tables up to 12 x 12 Use place value known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers Recognise and use factor pairs and commutativity mental calculations	Identify multiples and factors including finding all factor pairs of a number and common factors of 2 numbers Know and use 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 the notation for squared and cubed.	Identify common factors, common multiples and prime numbers Use estimation to check to answers to calculations and determine, in the context of a problem. An appropriate degree of accuracy.	



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	Experiment with	Automatically	Automatic	Calculate	Write and	Multiply two digit	Multiply numbers	Multiply multi
	their own	recall number	ally 	mathematical	calculate	and three digit	up to four digits by	digit numbers up
	symbols and	bonds for	recall	statements for	mathematical	numbers by a one	a one or two digit	to four digits by a
	marks as well as	numbers 0- 10	(without	multiplication and	statements for	digit number using	number using a	two digit whole
	numerals	(Spring Term)	reference	division within	multiplication	formal written	formal written	number using the
	(Autumn/Spring/		to rhymes,	multiplication	and division using	layout	method including	formal written
	Summer Term)	To begin to	counting	tables and write	the multiplication		long multiplication	method of long
		represent	or other	them using the	tables that they		for two digit	multiplication
		mathematical	aids)	multiplication	know, including		numbers	
		statements	number	division and	for two digit			Divide numbers up
		with	bonds up	equals signs	numbers times		Multiply and	to four digits by a
_		appropriate	to		one digit		divide numbers	two digit whole
<u>.</u>		symbols.	5 and		numbers, using		mentally drawing	number using the
<u>at</u>		(Autumn/Sprin	some		mental and		upon known facts	formal written
<u> </u>		g/Summer	number		progressing to			method of long
Mulitplication and Division: calculation		Term)	bonds to		formal written		Divide numbers up	division and
ä			10		methods		to four digits by a	interpret
isic			including				one digit number	remainders as
∑			double				using formal	whole number
			facts				written method of	remainders,
an							short division and	fractions or by
E C							interpret	rounding as
) iž							remainders	appropriate for
<u>::</u>							appropriately for	the context
itp							the context	
_ ⊒								Divide numbers up
≥							multiply and	to four digits by a
							divide whole	two digit number
							numbers and	using the formal
							those involving	written method of
							decimals by	short division
							10,100 and 1000	where
							10,100 and 1000	appropriate,
								interpreting
								remainders
								according to the
								context
								Context



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Multiplication and Division: Solve Problems		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 2 digit numbers by 1 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 fraction and problems involving simple rates	Perform mental calculations including with mixed operations and large numbers Solve problems involving addition subtraction multiplication and division	
Multiplication and Division: Combined					Solve problems involving addition subtraction multiplication and division and a combination of these, including understanding the meaning of the equals sign	Use their knowledge of the order of operations to carry out calculations involving the four operations	