EARLY YEARS

EYFS Addition

Early learning goals:

- Verbally count beyond 20, recognising the pattern of the counting system.
- Subitise (recognising quantities without counting) up to 5.
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
- Have a deep understanding of numbers to 10, including the composition of each number.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some number bonds to 10, including double facts.
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.

Count objects, actions and sounds Count beyond 20, recognising the pattern Subitise Link number symbol with it cardinal number value.	Count on in ones and say which number is one more/ one less. Have an understanding of numbers to 5 then 10, including the composition of each number.	Begin to relate addition to combining two groups of objects using practical resources, role play, stories and songs. Recall number bonds for 0-5 and some to 10, including double facts.	Know that counting on is a strategy for addition. Use numbered number lines/ tracks to 10 (or 20) and tens frames.
	1 2 3 4 5 6 7 13 12 11 10 9 8 14 15 16 17 18 19 20	Children can begin to combine groups of objects using concrete apparatus: Children can begin to combine groups of objects using concrete apparatus: Children are encouraged to read number sentences aloud in different ways: "Three add two equals 5" "5 is equal to three and two"	8 and two more.

Number tracks can be introduced to count up on and to find one more: What is 1 more than 4? I more than 13?	 "5 is the same as three and two" Children may a record in pictures, words or symbols of addition activities. 					
loving on to numbers within 20.						
One Less Number One More						
EYFS Subtraction						
 Early learning goals: Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. Say which number is one less than a given number. 						
egin to count backwards in familiar Intexts such as number rhymes or ories.	Begin to relate subtraction to 'taking away' using concrete objects and role blay.	Count backwards along a number line to 'take away'				
(s ł	Concrete apparatus are used to relate subtraction to taking away and counting now many objects are left.	Physically jump back on a number line.				
	oving on to numbers within 20.	Dre Less Number One More Image: Second S				

1 less than 20? Numicon and tens frames support subtraction.	Children can count abstract things that cannot be touched, moved or seen e.g. claps, drum beats etc.	Concrete apparatus models the subtraction of 2 objects from a set of 5. Construct number sentences verbally or using cards to go with practical activities. Construct number sentences verbally or using cards to go with practical activities. Children are encouraged to read sentences aloud in different ways "five subtract one eaves four" "four is equal to five subtract one" "four is the same as five subtract one". Solve simple problems using fingers.					
EYFS Multiplication and Division							
 Early learning goals: They solve problems, including doubling, halving and sharing 							
Use nictorial representations and concrete	Ilse concrete sources, role play, stories	Use nictorial representations and	Begin to share quantities using				
resources to double numbers to 10.	and songs to begin counting in twos.	concrete resources to halve numbers to 10.	practical resources, role play, stories and songs.				





The link between addition and multiplication can be introduced through doubling.



'I have 5 pairs of socks on this line. How many socks do I have altogether? '





"I have got a sandwich to share between two people. Can you cut the sandwich in half?"

Children have a go at recording the calculation that has been carried out: e.g. by drawing pictures in groups or by arranging concrete apparatus into groups.



Role play example: it is the end of the porty and the final two teddles are waiting for their party bags. Provide empty party bags and a small collection of items such as gifts, balloans and slices of cake. Ask the children to share the objects between the two bags.

Sharing model: I have 8 sweets. I want to share them with my friend. How many will we have each?

Key Stage 1 and 2





	Year 4	Year 5	Year 6	
_	Pupils continue to practise mental methods with increasingly	Pupils cochtildurent oppratitisermentalat anteatlaoiden withit inimerasi sigigily large	e Pupils Childhedepoalsticationerited talladionis with increasingly large	mt
tior	large numbers using models and images to help them.	numbersnusmærstodelistalholenusged 21,4602+12800m.14,762) using mod images to help them.	els aimid ensilorsing pheraedd taulahio rigg a siling headd a the siling head a the	89
i.	Children can draw a pictorial representation of	Written methods (progressing to more than 4-	Written methods	
Ac	the columns and place value counters to further	<u>digits)</u>	As year 5, progressing to larger numbers, aiming	
	support their learning and understanding.		for both conceptual understanding and	l
			procedural fluency with columnar method to be]







³ ¹ 4357	Ensure children know when and how to insert a 'place holder' (zero) to ensure the digits are inline.		2	9	³⊀	¹ 3	8	2
- 2735	Line un the	-	1	8	2	5	0	1
1622	decimal points		1	1	1	8	8	1
	4.321 - 4.1							
	0.221							







