



Supporting Maths Mastery Skills

Year 2

This booklet aims to show you, as simply as possible, how to help your child in Maths.



ADDITION

In Year 2, pupils can continue to record addition calculations on a number line, then they can start to partition larger numbers enabling the children to add the tens first, then the ones and finally reaching the answer. They will use the part-part whole and bar models to show their method. At this stage the children will explore a

range of manipulatives.





SUBTRACTION

In Year 2, children will continue to use a number line to subtract but will focus on the difference in value between the numbers. They will then use the method of partitioning the tens and the ones.

25 - 13 =

25 - 13

20 - 10 = 10

5 - 3 = 2

10 + 2 = **12**



Objective & Strategy	Concrete	Pictorial	Abstract	
Regroup a ten into ten ones	Use a PV chart to show how to change a ten into ten ones, use the term 'take and make'	20 - 4 =	20—4 = 16	
Partitioning to sub- tract without re- grouping. 'Friendly numbers'	34-13 = 21	Children draw representations of Dienes and cross off. $ \begin{array}{c} $	43—21 = 22	
Make ten strategy Progression should be crossing one ten, crossing more than one ten, cross- ing the hundreds.	34-28 Use a bead bar or bead strings to model counting to next ten and the rest.	Use a number line to count on to next ten and then the rest.	93—76 = 17	



DIVISION

In Year 2, children will record their divisions just like multiplication using arrays or number lines. The children will be taught to recognise whether the problems require sharing or grouping.



(I start at zero and count in 2's until I get to 16)

Objective &	Concrete	Pictorial	Abstract	
Strategy				
Division as sharing	have 10 cubes, can you share them equally in 2 groups?	Children use pictures or shapes to share quanti- ties. $\begin{array}{c} & & & & & & & & \\ & & & & & & & \\ & & & &$	12 ÷ 3 = 4	
Division as grouping	Divide quantities into equal groups. Use cubes, counters, objects or place value counters to aid understanding.	Use number lines for grouping 3^{+3} 4^{+3} 4^{+3} 4^{+3} 4^{+3} 0 + 2 + 3 = 4 Think of the part as a writer. Spin it muto the number of groups you are dividing by and work out how many would be within each group. 20 20 ÷ 5 = ? 5 x ? = 20	28 + 7 = 4 Divide 28 into 7 groups. How many are in each group?	

<u>Year 2 I can statements</u>

By the end of year 2 your child should be able to achieve the following I can statements

Number - Place Value

- I can count in steps of 2s, 3s and 5s from 0.
- I can count in 10s from any given number, forwards and backwards.
- I can recognise place value in two-digit number (10s, 1s).
- I can identify, represent and estimate numbers using different representations, including a number line.
- I can compare and order numbers up to 100 using <, > and =.
- I can read and write numbers to at least 100 in numerals and in words.
- I can use place value and number facts to solve problems.

Number - Addition and Subtraction

- I can recall and use addition/subtraction facts to 20 and derive related facts up to 100.
- I can solve problems with addition and subtraction, using concrete objects and pictorial representations.
- I can add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and 1s.
- I can add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and 10s.
- I can add and subtract numbers using concrete objects, pictorial representations, and mentally, including: 2 two-digit numbers.
- I can add 3 one-digit numbers.
- I can show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot.
- I can use the inverse relationship between addition and subtraction.

Number - Multiplication and Division

- I can recall multiplication and division facts for the 2×, 5× and 10× tables, including recognising odd and even numbers.
- I can calculate mathematical statements using x, ÷ and = signs.
- I can show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot.
- I can solve problems involving x and ÷ and using materials, arrays, repeated addition and mental methods.

Please help your child become familiar with their times tables.

$1 \times 1 = 1$	1 x 2 = 7	2	$1 \times 3 = 3$	3
$2 \times 1 = 2$	2 x 2 =	4	$2 \times 3 =$	6
$3 \times 1 = 3$	3 x 2 =	6	$3 \times 3 =$	9
$4 \times 1 = 4$	4 x 2 =	8	$4 \times 3 =$	12
$5 \times 1 = 5$	5 x 2 =	10	$5 \times 3 =$	15
$6 \times 1 = 6$	6 x 2 =	12	$6 \times 3 =$	18
$7 \times 1 = 7$	7 x 2 =	14	$7 \times 3 =$	21
$7 \times 1 = 8$	8 x 2 =	16	$8 \times 3 =$	24
$9 \times 1 = 9$	9 x 2 =	18	$9 \times 3 =$	27
$10 \times 1 = 10$	10 x 2 =	= 20	$10 \times 3 =$	= 30
$11 \times 1 = 11$	11 x 2 =	= 22	$11 \times 3 =$	= 33
$12 \times 1 = 12$	12 x 2	= 24	$12 \times 3 =$	= 36
$ \begin{array}{r} 1 \times 5 = \\ 2 \times 5 = \\ 3 \times 5 = \\ 4 \times 5 = \\ 5 \times 5 = \\ 6 \times 5 = \\ 7 \times 5 = \\ 8 \times 5 = \\ 9 \times 5 = \\ 10 \times 5 \\ 11 \times 5 = \\ 12 \times 5 \end{array} $	5 10 15 20 25 30 35 40 45 = 50 = 55 = 60	$ \begin{array}{r} 1 \times 10 = \\ 2 \times 10 = \\ 3 \times 10 = \\ 4 \times 10 = \\ 5 \times 10 = \\ 6 \times 10 = \\ 7 \times 10 = \\ 8 \times 10 = \\ 9 \times 10 = \\ 10 \times 10 \\ 11 \times 10 \\ 12 \times 10 \end{array} $	10 20 30 = 40 = 50 = 60 = 70 = 80 = 90 = 100 = 110 = 120	

Useful websites to help enhance your child's learning at home:

Number Blocks BBC iPlayer - Numberblocks

KS1 BBC Bite Size KS1 Maths - England - BBC Bitesize

Kids Maths Games <u>Kids Math Games Online - Free Interactive Learning</u> <u>Activities, Fun Educational Resources</u>

Top Marks Maths http://www.topmarks.co.uk/maths-games/5-7-years/ counting

ICT Maths Games Learn to Count with fun Counting Games for KS1 Children (topmarks.co.uk)

Primary Games (some free games) Primary Games :: Maths Games and Interactive Resources for the Primary Classroom

Times Table Rock Stars <u>Times Tables Rock Stars – Times Tables Rock Stars</u> (ttrockstars.com)

Apps One minute white rose maths