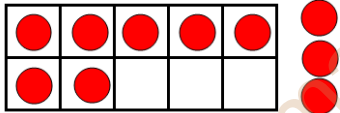





## Knowledge Organiser for EYFS and KS1 Maths

Number and Place Value	
Key Vocabulary	
Partitioning	Splitting a number different ways to support calculation
Tens	The value of the first digit in a 2 digit number (eg 32 has 3 tens)
Units/ ones	The value of the final digit in a number (eg 45 has 5 units)
Digit	An individual figure within a number (eg 1, 2)
Ordinal number	Numbers which define order (1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> )
Greater than >	When a number has a higher value than the one it is being compared with
Less than <	When a number has a lower value than the one it is being compared with
Equals =	Use to show that both sides of a number sentence are balanced (eg. $3+4=7$ , $7=3+4$ , $2+5=3+4$ )
How to help	Useful links
Count regularly with your child forwards and backwards Count objects, people, knives and forks.... Spot numbers on the way to school Play board games eg Snakes and Ladders	<b>National Curriculum/ Development matters-</b> found on our school website

Mental Maths	
Key Vocabulary	
Multiple	A number which can be divided by a another number without leaving a remainder
Bonds to 10	All of the pairs of numbers which add to 10 (3+7, 4+6)
Bonds within 10	All of the pairs numbers which add to each number up to 10 (eg $2+3=5$ , $1+4=5$ )
10s Frame	Used to solve addition and subtraction problems, normally within 20. 
Bead string	Used to solve problems within 100 
Associated fact/ fact family	A group of facts which use the same set of numbers eg $3+4=7$ , $4+3=7$ , $7-3=4$ , $7-4=3$
Double	Adding a number to itself
How to help	Useful links
Work regularly on simple addition and subtraction facts within 10 Add and subtract physical objects at home eg at dinner time Help your Year 2 child with their mental maths homework Practice times tables facts for 2,3,5,and 10 times tables	<b>National Curriculum/ Development matters-</b> found on our school website <b>Top Marks Website-</b> <a href="http://www.topmarks.co.uk/maths-games/5-7-years">http://www.topmarks.co.uk/maths-games/5-7-years</a> maths games to play with your child <b>ICT Games Website</b> <a href="http://www.ictgames.com/resources.html">http://www.ictgames.com/resources.html</a> maths games to play with your child

Operations	
Key Vocabulary	
Operation	Addition, subtraction, multiplication or division
Number sentence	A written calculation
Addition	The sum of two numbers (plus, add, total, more than)
Subtraction	Taking one number away from another or finding the difference between those values (take away, subtract, less than)





## Operations

### Key Vocabulary

Difference between	<p>How many between the two numbers- often solved on a number line (how many more, how many less) Eg difference between 11 and 14</p>
Multiplication	Multiplying one number by another (times, lots of, multiplied by, product of)
Array	<p>A visual representation of multiplication</p>
Division	Sharing or grouping a number into equal parts (share, divide, groups of, how many in)
Share	Divide a number or a number of objects equally into a number of piles
Group	Place objects in groups of a certain number
Commutative	The concept that addition and multiplication can be done in any order but subtraction and division cannot
Inverse	Reversing the effect of another operation eg $3+4=7$ so $7-4=3$
Number line	Used to solve calculations of all types- these may be filled or empty
Numicon	<p>Tens and units apparatus used to support calculations</p>
Dienes	<p>Tens and units apparatus used to support calculations</p>
<b>How to help</b>	
<b>Useful links</b>	
Help your child with their maths homework (Year 2)	<p><b>National Curriculum/ Development matters-</b> found on our school website <b>Maths Calculation Strategies documents-</b> found on our school website</p>

## Fluency, Reasoning and Problem Solving

### Key Vocabulary

Fluency	Using number and calculation skills accurately and efficiently
Reasoning	Following a line of enquiry, justifying their answers
Problem solving	Solving real life and logical problems using mathematical understanding
<b>How to help</b>	
<b>Useful links</b>	
Support your child with their maths homework	<b>National Curriculum/ Development matters-</b> found on our school website

