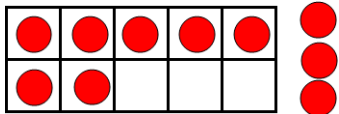



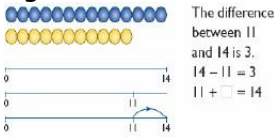
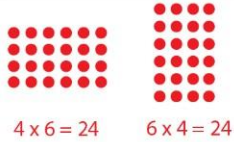


# Mathematics EYFS/KS1

## Knowledge Organiser

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 (e.g. 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 e.g. 3+4=7, 4+3=7, 7-3=4, 7-4=3
Double	Adding a number to itself
How to help	Useful links
<p>Work regularly on simple addition and subtraction facts within 10</p> <p>Add and subtract physical objects at home e.g. 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</p>	<p><b>National Curriculum/ Development matters-</b> found on our school website</p> <p><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</p> <p><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</p>

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	How many between the two numbers- often solved on a number line (how many more, how many less) e.g. difference between 11 and 14  <p>The difference between 11 and 14 is 3.  <math>14 - 11 = 3</math>  <math>11 + \square = 14</math></p>		
Multiplication	Multiplying one number by another (times, lots of, multiplied by, product of)		
Array	A visual representation of multiplication  <p><math>4 \times 6 = 24</math>    <math>6 \times 4 = 24</math></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 e.g. $3+4=7$ so $7-4=3$		
Number line	Used to solve calculations of all types- these may be filled or empty		
Numicon	Tens and units apparatus used to support calculations 		
Dienes	Tens and units apparatus used to support calculations 		
How to help		Useful links	
Help your child with their maths homework (Year 2)		<b>National Curriculum/ Development matters-</b> found on our school website <b>Maths Calculation Strategies documents-</b> found on our school website	

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		
How to help		Useful links	
Support your child with their maths homework		<b>National Curriculum/ Development matters-</b> found on our school website	