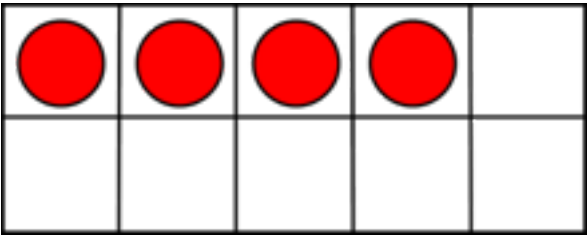






## KNOWLEDGE ORGANISER FOR EYFS/KS1 MATHS

Number and Place value	
Key Vocabulary	
Partitioning	Splitting a number in different ways e.g <b>tens and ones 13 is made up of 1 ten and 3 ones</b>
Tens	The value of the first digit in a 2 digit number e.g <b>32 has 3 tens</b>
Units/ones	The value of the final digit in a number e.g <b>45 has 5 units</b>
Digit	Individual figure within a number
Ordinal number	Numbers which define an order; <b>1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup></b>
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 =	Used to show that both sides of a number sentence are balanced e.g <b>2+6=8 8=6+2 3+2=1+4</b>
How to help	Useful links
Count regularly with your child forwards and backwards starting from a given number e.g <b>4-34 32-3</b>	National Curriculum for Key Stage 1 Number in the EYFS Number Early Learning Goal Numberblocks – Lots of episodes on you tube and i player <a href="https://www.bbc.co.uk/cbeebies/shows/numberblocks">https://www.bbc.co.uk/cbeebies/shows/numberblocks</a>
Count objects, things, people	
Spot numbers in the environment	
Practise writing the digit 0-9 correctly	
Play games with your child – snakes and ladders, monopoly junior etc	
Encourage your child to lay the table, count the number of people and work out the cutlery needed	

### Mental maths/fluency

Key vocabulary	
Multiple	A number that can be divided by another number without leaving a remainder
Double	Adding a number to itself
Fact families	A group of facts which use the same set of numbers e.g <b>3+4=7 4+3=7 7-3=4 7-4=3</b>
Bonds to 10	Pairs of numbers that add up to 10 e.g <b>6+4 5+5 2+8 1+9</b>
10's frame	Used to solve addition and subtraction problems, within 10 and 20 
Numicon	Used to solve problems within 10 and 20 
Bead string	 Used to solve problems within 10, 20 and 100
How to help	

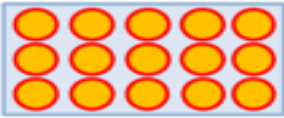
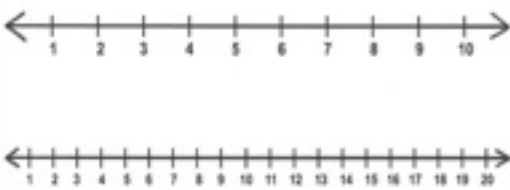
Work regularly on simple addition and subtraction facts within 10  
 Add and subtract physical objects at home e.g at dinner time  
 Practise number bonds to 10 and encourage your child to learn the facts  
 Practise times tables facts for 2,3,5 and 10 times tables

### Useful links

National Curriculum for Key Stage 1  
 Number in the EYFS  
 Number Early Learning Goal  
 Numberblocks – Lots of episodes on you tube and  
 i player <https://www.bbc.co.uk/cbeebies/shows/numberblocks>  
 TOPMARKS website – <http://www.topmarks.co.uk/maths-games/5-7-years>

### Operations

#### Key Vocabulary

Operation	Addition. subtraction, multiplication and 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
Difference between	How many between the two numbers eg the difference between 11 and 14 is 3 $14-3=11$ $11+?=14$
Multiplication	Multiplying one number by another – times, lots of, multiplied by
Array	A visual representation of multiplication <b>What is 5 x 3?</b> 
Division	Sharing or grouping a number into equal parts – share, divide, groups of, how many in
Share	Share 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 addition cannot
Inverse	Reversing the effect of another operation e.g $3+5=8$ $8-5=3$
Number line	Used to solve calculations 

### How to help



## Fluency, reasoning and problem solving

### Key Vocabulary

Fluency	Using number and calculation skills accurately and effectively
Reasoning	Following a line of enquiry, justifying answers
Problem Solving	Solving real life and logical problems using mathematical understanding

### How to help

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