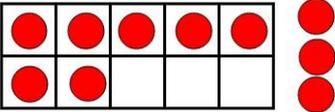
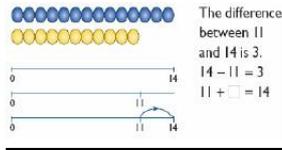
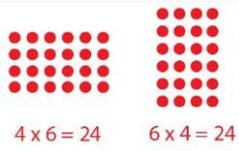


Knowledge Organiser for EYFS and KS1 Maths

| 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 st , 2 nd , 3 rd) |
| 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 | National Curriculum/ Development matters- 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 |  <p>Used to solve addition and subtraction problems, normally within 20.</p> |
| Bead string |  <p>Used to solve problems within 100</p> |
| 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 |
| <p>Work regularly on simple addition and subtraction facts within 10</p> <p>Add and subtract physical objects at home eg at dinner time</p> <p>Help your Year 2 child with their mental maths homework</p> <p>Practice times tables facts for 2,3,5,and 10 times tables</p> | | <p>National Curriculum/ Development matters- found on our school website</p> <p>Top Marks Website- http://www.topmarks.co.uk/mathsgames/5-7-years maths games to play with your child</p> <p>ICT Games Website http://www.ictgames.com/resources.html 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 | <p>How many between the two numbers- often solved on a number line (how many more, how many less)</p> <p>Eg difference between 11 and 14</p>  <p>The difference between 11 and 14 is 3. $14 - 11 = 3$ $11 + \square = 14$</p> | |
| Multiplication | Multiplying one number by another (times, lots of, multiplied by, product of) | |
| Array | <p>A visual representation of multiplication</p>  <p>$4 \times 6 = 24$ $6 \times 4 = 24$</p> | |
| Division | Sharing or grouping a number into equal parts (share, divide, groups of, how many in) | |
| Share | | |
| 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 |  | Tens and units apparatus used to support calculations |

Tens and units apparatus used to support calculations



Dienes

| How to help | | Useful links |
|--|---|--|
| Help your child with their maths homework (Year 2) | | National Curriculum/ Development matters- found on our school website Maths Calculation Strategies documents- 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 | | National Curriculum/ Development matters- found on our school website |