Maths Calculation Policy

|  | Addition | Subtraction | Multiplication | Division |
| :---: | :---: | :---: | :---: | :---: |
| Rec | Children are taught to 'combine 2 groups.' <br> Adding using objects or pictures Focus on adding using real objects, such as teddies, pennies, pencils and cubes. <br> I buy 2 cakes and my friend buys 3 cakes. How many cakes did we buy altogether? <br> Recorded as $2+3=5$ <br> Children introduced to numberlines to support calculations and teachers demonstrate the use of a numberline. <br> Bead strings can be used to illustrate addition. <br> Recording calculations Children develop ways of recording addition calculations by drawing pictures and begin to record using mathematical symbols $\text { e.g. } 2+3=5$ <br> Rapid Recall <br> 1 more (numbers up to 10) | Children are taught to 'take away' from a set. <br> Subtracting using objects or pictures Focus on using real objects or pictures to solve problems. <br> I have 5 cakes and my friend eats 2. How many are left? <br> Recorded as 5-2 = 3 <br> Children introduced to numberlines to support calculations and teachers demonstrate the use of a numberline. <br> Bead strings can be used to illustrate subtraction. <br> Recording calculations Children develop ways of recording subtraction calculations by drawing pictures, recording using digital camera and begin to record using mathematical symbols $\text { e.g. } 5-2=3$ <br> Rapid Recall <br> 1 less <br> (numbers up to 10) | Children will count in 1s \& 2s and will begin to count in 10's. <br> Children will talk about equal groups of objects. <br> 3 plates, 2 cakes on each plate <br> Recording calculations Children may draw pictures to represent their understanding or take pictures with an iPad. | Children will talk about sharing. <br> 6 cakes shared between 2 <br> 6 cakes put into groups of 2 <br> Recording calculations Children may draw pictures to represent their understanding or take pictures with an iPad. |



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| :---: | :---: | :---: | :---: | :---: |
| Y2 | Adding using a numberline <br> $\checkmark$ Children are taught to use empty numberlines, starting with the largest number and counting on. $34+23=57$ <br> Adding using a 100 square $24+32=56$ <br> Adding using tens and unit/ones $23+12=35$ <br> Partitioning $47+35=$ $40+30=70$ <br> $7+5=12$ <br> $70+12=82$ <br> OR $\begin{aligned} & 47+30=77 \\ & 77+5=82 \end{aligned}$ <br> Rapid Recall <br> - Number bonds for 10, 20, 100 | Subtracting using a numberline <br> $\checkmark$ Children are taught to use empty numberlines, starting with the largest number and counting back. $47-23=24$ <br> Taking away using a 100 square $68-42=26$ <br> Taking away using tens and units/ones $43-21=22$ <br> Partitioning $\begin{aligned} & 77-24= \\ & 77-20=57 \\ & 57-4=53 \end{aligned}$ <br> Calculating change by counting on: $\begin{aligned} & 50 p-22 p= \\ & 22>30=8 \\ & 30>50=20 \\ & 20 p+8 p+28 p \text { change } \end{aligned}$ <br> Rapid Recall <br> - Subtraction facts for 10 and 20 | Children develop their understanding of multiplication and use jottings to support calculations: <br> $\checkmark$ Repeated addition 3 times 5 is $5+5+5=15$ or 3 lots of 5 or $5 \times 3$ <br> Commutativity <br> Children should know that $5 \times 3$ has the same answer as $3 \times 5$. <br> Multiplying larger numbers $15 \times 3=$ <br> Can be worked out as: <br> 105 <br> 105 <br> 105 <br> $30+15=$ <br> $30+10+5=45$ <br> Multiplication shown as an array $3 \times 4=12 \text { or } 4 \times 3=12$ | Children develop their understanding of division and use jottings to support calculations: <br> $\checkmark$ Sharing equally 6 sweets shared between 2 people, how many do they each get? <br> $\checkmark$ Grouping or repeated subtraction <br> -0/00/00 <br> Inverse <br> Using multiplication to support division $3 \times 5=15$ so l know that, $15 \div 5$ <br> Recognising when a number cannot be divided equally and therefore leaves a remainder $10 \div 3=$ <br> Knowing that $9 \div 3=3$, <br> So, $10 \div 3=3 \mathrm{r} 1$ |

