

| Add one digit and twodigit numbers to 20, including zero | Children use bead strings to recognise how to add the 1 s to find the total efficiently. $\begin{aligned} & 2+3=5 \\ & 12+3=15 \end{aligned}$ <br> Children use a bead string to complete a 10 and understand how this relates to the addition. <br> 7 add 3 makes 10 . <br> So, 7 add 5 is 10 and 2 more. | Children represent calculations using ten frames to add a teen and 1 s . $\begin{aligned} & 2+3=5 \\ & 12+3=15 \end{aligned}$ <br> Children use counters to complete a ten frame and understand how they can add using knowledge of number bonds to 10 . | Children recognise that a teen is made from a 10 and some 1 s and use their knowledge of addition within 10 to work efficiently. $\begin{aligned} & 3+5=8 \\ & \text { So, } 13+5=18 \end{aligned}$ <br> Use a part-whole model and a number line to support the calculation. |
| :---: | :---: | :---: | :---: |
| Represent and use number bonds and related subtraction facts within 20 | Break apart a group and put back together to find and form number bonds. | Double-sided counters: Red-Yellow counters can be used to help children find out about different ways of making the same number. They may also start to spot patterns. <br> The concrete or pictorial representations of number facts should always be linked to the abstract (i.e. the number sentence it relates to). | Use a part-whole model alongside other representations to find number bonds. Make sure to include examples where one of the parts is zero. |

\begin{tabular}{|c|c|c|c|}
\hline Year 1 subtraction \& \& \& \\
\hline \begin{tabular}{l}
Identify and represent numbers using objects and pictorial representations including the number line. \\
Counting back Taking away
\end{tabular} \& \begin{tabular}{l}
Arrange objects and remove to find how many are left. \\
1 less than 6 is 5 . \\
6 subtract 1 is 5 .
\end{tabular} \& \begin{tabular}{l}
Draw and cross out or use counters to represent objects from a problem. \\
There are \(\square\) children left.
\end{tabular} \& \begin{tabular}{l}
Children count back to take away and use a number line or number track to support the method. \\
8.... 7 .6
\(\qquad\)
\[
9-3=6
\]
\end{tabular} \\
\hline \begin{tabular}{l}
Identify and represent numbers using objects and pictorial representations including the number line. \\
Finding the difference
\end{tabular} \& \begin{tabular}{l}
Arrange two groups so that the difference between the groups can be worked out. \\
10 is 7 more than 3. \\
3 is 7 less than 10. \\
The difference between 10 and 3 is 7 .
\end{tabular} \& \begin{tabular}{l}
Represent objects using sketches or counters to support finding the difference.

$$
5-4=1
$$ \\

The difference between 5 and 4 is \\
1.

 \& 

Children understand 'find the difference' as subtraction.

$$
10-4=6
$$ \\

The difference between 10 and 6 is 4.
\end{tabular} \\

\hline Represent and use number bonds and related subtraction facts within 20 \& | Understand when and how to subtract 1s efficiently. |
| :--- |
| Use a bead string to subtract 1s efficiently. | \& Understand when and how to subtract 1s efficiently. \& Understand how to use knowledge of bonds within 10 to subtract efficiently. \\


\hline Subtract one digit and two-digit numbers to 20 , including zero \& | $\begin{gathered} 5-3=2 \\ 15-3=12 \end{gathered}$ |
| :--- |
| For example: 12-7 |
| Arrange objects into a 10 and some 1 s , then decide on how to split the 7 into parts. | \& | $\begin{aligned} & 5-3=2 \\ & 15-3=12 \end{aligned}$ |
| :--- |
| Represent the use of bonds using ten frames. | \& | $\begin{aligned} & 5-3=2 \\ & 15-3=12 \end{aligned}$ |
| :--- |
| Use a number line and a partwhole model to support the method. $13-5$ | \\

\hline
\end{tabular}



|  |  |  | the 'missing number' can be placed in all possible positions: $\begin{aligned} & 7+\square=9 \\ & \square-3=11 \\ & \square=8+5 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Year 1 addition and subtraction vocabulary | addition, add, forwards, put together, more than, total, altogether, distance between, difference between, equals = same as, pattern, odd, even, digit, counting on, subtraction, subtract, take away, minus, less than, most, least. |  |  |
| Year 1 multiplication |  |  |  |
| count in multiples of twos, fives and tens | There are 5 pens in each pack ... 5...10...15...20...25...30...35...40... | 100 squares and ten frames support counting in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10s. | Use a number line to support repeated addition through counting in 2 s , 5 s and 10 s . |
| solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher | Children arrange objects in equal and unequal groups and understand how to recognise whether they are equal. <br> A B <br> $0-1$ | Children draw and represent equal and unequal groups. | Three equal groups of 4 . Four equal groups of 3 . |
| Year 1 division |  |  |  |


| solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations, and arrays with the support of the teacher | Learn to make equal groups from a whole and find how many equal groups of a certain size can be made. <br> Sort a whole set people and objects into equal groups. <br> There are 6 fish altogether. <br> There are 2 in each group. <br> There are 3 groups. | Represent a whole and work out how many equal groups. <br> There are 10 in total. <br> There are 5 in each group. <br> There are 2 groups. <br> Half of 8 is 4 . <br> Children should be shown $8 \div 2=4$ that halving and dividing by 2 are the same. | Children may relate this to counting back in steps of 2,5 or 10. |
| :---: | :---: | :---: | :---: |
|  | Share a set of objects into equal parts and work out how many are in each part. | Sketch or draw to represent sharing into equal parts. This may be related to fractions. | 10 shared into 2 equal groups gives 5 in each group. |
| Year 1 Multiplication and division vocabulary | Ones, groups, lots of, doubling repeated add wide >etc), share, share equally, one each, | ion, groups of, lots of, times, columns, rows, longer, b each, group, groups of, lots of, array. | , higher, times as (big, long, |

