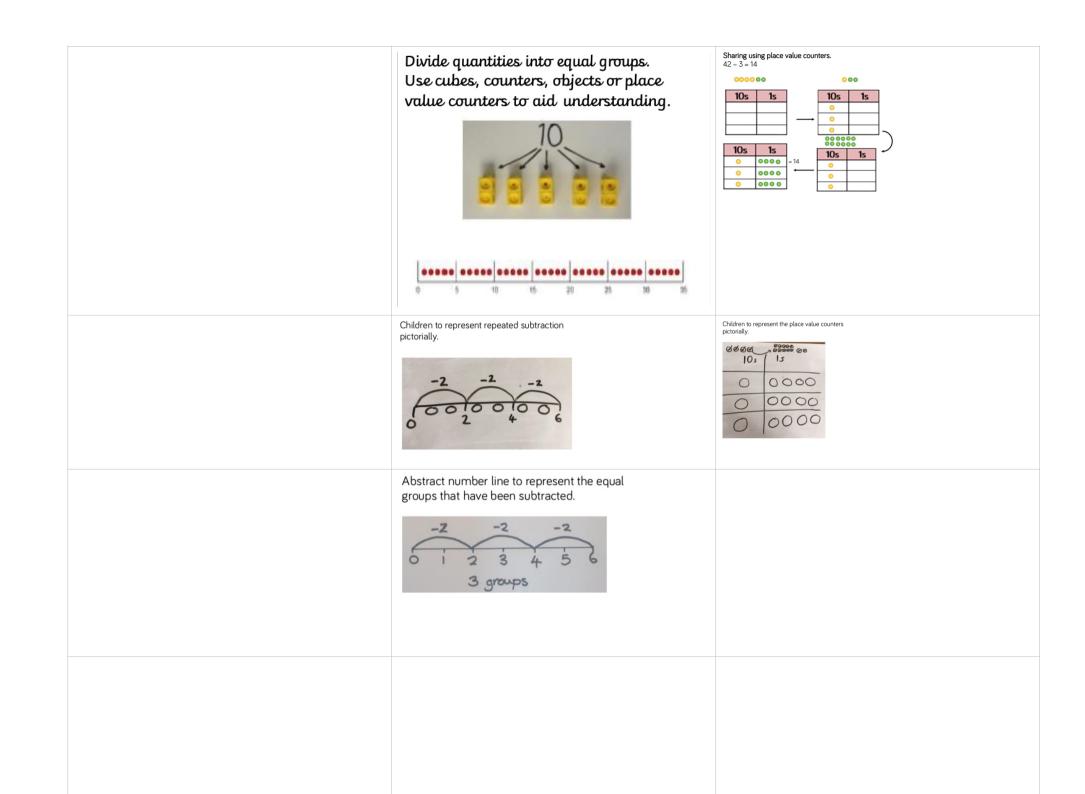
ALVERTON CALCULATION POLICY - DIVISION EYFS/Year 1 Year 2 Year 3 Count in 2s and 10s. Count in 2. 3. 4. 5. 9 and 10. Counting in 2, 5, 10. Find half of even numbers to 100 by partitioning Find half of even numbers up to 12. Finding half of numbers up to 40. Begin to find half of multiples of 10. **Sharing** using a range of objects. Use of arrays as a pictorial representation for 6 ÷ 2 division. $15 \div 3 = 5$ There are 5 groups of 3. Jumps in groups on number line $15 \div 5 = 3$ There are 3 groups of 5. Grouping How many 6's are in 30? 30 ÷ 6 can be modelled as: Children should be able to find $\frac{1}{2}$ and $\frac{1}{4}$ and simple fractions of objects, numbers and quantities. Represent the sharing pictorially. 2d + 1d with remainders using lollipop sticks. Cuisenaire **Division as Grouping and Sharing** rods, above a ruler can also be used. $13 \div 4$ Use of lollipop sticks to form wholes- squares are made because we are dividing by 4. There are 3 whole squares, with 1 left over. Children to represent the lollipop sticks pictorially. $6 \div 2 = 3$ I have 10 cubes, can you share them into 2 equal groups? 3 3 Children should also be encouraged to use their 2 times tables facts. There are 3 whole squares, with 1 left over.



ALVERTON CALCULATION POLICY - DIVISION

Year 4

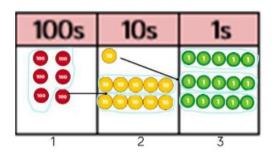
Count in 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 25, 50, 100

Find half of even numbers to 200.

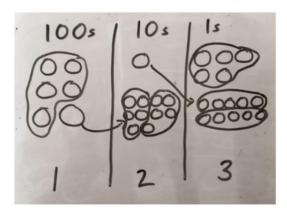
Begin to halve amounts of money.

Short Pivision with and without remainders

Short division using place value counters to group:



Represent the place value counters pictorially.



Year 5

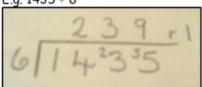
Introduction to long division through chunking.

830 ÷ 25

Answer 33 r5

Formal Written Methods

Continued as shown in Year 4, leading to the efficient use of a formal method. The language of grouping to be used (see link from fig. 1 in Year 4) E.g. $1435 \div 6$



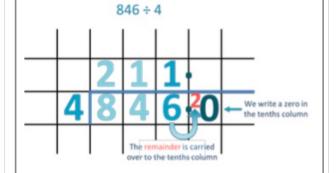
Children begin to

practically develop their understanding of how express the remainder as a decimal or a fraction. Ensure practical understanding allows children to work through this (e.g. what could I do with this remaining 1? How could I share this between 6 as well?)

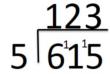
Year 6

Children will continue using formal short division expressing the remainder as a decimal.

Children can then progress onto expressing the remainder as fractions (e.g. 5/8) and decimals (e.g. 663.625).

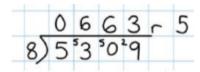


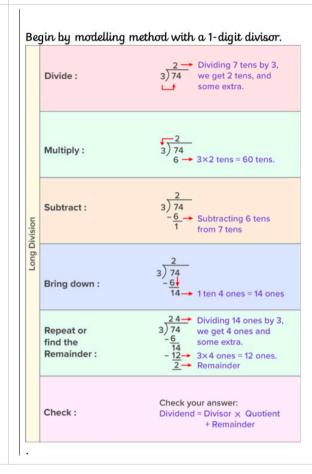
Children to the calculation using the short division scaffold.



When dividing by a 2-digit number they will either continue to refine their chunking (repeated subtraction) or move on to formal long division (Mike's group)

Move onto divisions with a remainder:





	25.2 5) 126.0 -10 26 -25 10 -10 0 When there is a remainder which you need to write as a decimal, bring down the 0 in the from then tenths column, and repeat the process as before.