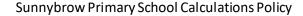


Sunnybrow Primary School Calculations Booklet







Addition Subtraction Multiplication Division Children are encouraged to gain a sense Children use concrete objects to make Children use concrete objects to count Children are encouraged to gain a sense of the number system through the use of the number system through the use and count equal and share equally into 2 groups. of counting concrete objects. of counting concrete objects. groups of objects. 6 cakes shared between 2 people each They will count on person gets 3 cakes. 6 ÷2 = 3 in twos using a bead They combine objects in They understand string and number practical ways and count subtraction as line. all. counting out. They understand doubling as repeated They count a set of objects and halve They understand addition as counting addition. They begin to count back in ones and them by making two equal groups. on and will 2 + 2 = 4twos using objects, cubes, bead string count on in and number line. They understand sharing and halving as They use concrete ones and -0000000000 and pictorial dividing by 2. twos using representation to record their They will begin to use objects to make calculations. groups of 2 from a given amount. They use concrete and pictorial cubes, bead string and number line. Higher attaining representation to record their children may be calculations. They use concrete and pictorial They use concrete and pictorial able to represent their calculations using symbols and numbers within a written representation to record their representation to record their calculation. They begin to use - and = calculations. calculations. . · · They are encouraged to develop a They begin to use + and = 1111-11-0 mental picture of the number system in They are encouraged to @@-@-C their heads to use for calculations. develop a mental picture of 4114-11-0 attaining children may be able to Higher attaining children may be able to the number system in their represent their calculations using represent their calculations using heads to use for calculations. symbols and numbers within a written symbols and numbers within a written Higher attaining children may be able to calculation. calculation. represent their calculations using symbols and numbers within a written



Year 1 - Addition

| Objective & Strategy | Concrete | Pictorial | Abstruct |
|---|--|--|--|
| Combining two parts to make a whole: part- whole model. | Use part- part whole model. Use cubes to add two numbers together as a group or in a bar. | Use pictures to add two numbers together as a group or in a har. | 4 + 3 = 7 10 = 6 + 4 5 Use the part-part whole diagram as shown above to move into the abstract. |
| Starting at the bigger number and counting on. | Start with the larger number on the bead string and then count on to the smaller number 1 by 1 to find the answer. | 12 + 5 = 17 10 11 12 13 14 15 16 17 18 19 20 Start at the larger number on the number line and count on in ones or in one jump to find the answer. | 12 + 5 = 17 Place the larger number in your head and count on the smaller number to find your answer. |



| Regrouping to make 10. | Start with the bigger number and use the smaller number to make 10. | Use pictures or a number line. Regroup or partition the smaller number to make 10. 9 + 5 = 14 1 4 1 4 1 4 1 4 1 4 1 4 1 4 | "If I am at seven, how many more do I need to make 10? How many more do I add on now?" |
|--|---|--|--|
| Represent & use number bonds and related subtraction facts within 20. | 2 more than 5. | 5+2 m | Emphasis should be on the language: "1 more than 5 is equal to 6" "2 more than 5 is 7" "8 is 3 more than 5" |



Year 2 - Addition

| Objective & Strategy | Concrete | Pictorial | Abstract |
|--|--|---|---|
| Adding multiples of ten. | 50 = 30 + 20 Model using dienes and bead strings. | Use representations for base ten. | 20 + 30 = 50 70 = 50 + 20 40 += 60 |
| Use known number facts including different combinations of tens & ones of any 2 digit number. (Part part whole) | Children explore ways of making numbers. | 20 | Include teaching of the inverse of addition and subtraction: |
| Use known facts. | | $\begin{array}{cccc} & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & $ | 3 + 4 = 7 Leads to $30 + 40 = 70$ Leads to $300 + 400 = 700$ |



| Use bar models. | | 33333333333 | 23 25 |
|-------------------------------------|---|--|---|
| | 3 + 4 = 7 | 7 + 3 = 10 | 23 + 25 = 48 |
| Add a two digit number and ones. | 17 + 5 = 22 Use ten frame to make 'magic ten'. Children explore the patterns: 17 + 5 = 22 27 + 5 = 32 | 17 + 5 = 22 Use part part whole and number line to model. 16 + 7 | 17 + 5 = 22 Explore related facts: 17 + 5 = 22 5 + 17 = 22 22 - 17 = 5 22 - 5 = 17 |
| Add 2 digit numbers and tens. | 25 + 10 = 35 Explore that the ones digit does not change. | 27 + 30 +10 +10 +10 | 27 + 10 = 37 27 + 20 = 47 27 + = 57 |
| Add two 2-digit numbers. | Model using dienes, place value counters and numicon. | Use number line and bridge ten using part whole if necessary. | 25 + 47 20 + 5 40 + 7 20 + 40 = 60 5+ 7 = 12 60 + 12 = 72 |



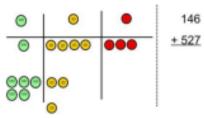
| Add three 1-digit numbers. | Put 4 and 6 together to make 10. Add on 7. Regroup and draw representation. Following on from making 10, make 10 with 2 of the digits (if possible) then add on the third digit. $4+7+6=10+7$ Regroup and draw representation. $4+7+6=10+7$ Combine the two numbers that make/bridge ten, then add on the third on the third add on the third on the third digit. |
|--|---|
| Rapid Recall (addition and subtraction) | Bonds within 10 Bonds within 20 Bonds to 100 (multiples of 10) Add single-digit to make a multiple of 10 Strategies Add/subtract 9, 19, 29 Partitioning Add near doubles Reorder Count on/back in 10s |



Year 3 - Addittion

| Objective & Strategy | | | Concrete | | Pictorial | Abstract | | |
|--|---|---------------|-------------|--|---|--|--|--|
| Column Addition – | 3 | 2 | 24 + 15 = | | After practically using the base 10 | Add the ones first, then the tens, then th | | |
| no regrouping (friendly numbers) | т о • | | | • | blocks and place value counters, children can draw the counters to help | hundreds: 2 2 3 | | |
| 8 10 11 18 17 10 10 10 10 10 10 10 10 10 10 10 10 10 | 020000 | | 000 | 0000 | them to solve additions. | + 1 1 4 | | |
| Add 2 or 3 digit | amm | Total Control | | 00000 | TO | 3 3 7 | | |
| numbers. | Add together the ones first then add the tens. Use the Base 10 blocks first before moving onto place value counters. | | | | | Children use the 'steps to success' to format their calculation: "Steps for Success' 1. Write your calculation, label your rights and circle the sparation. 1. Use the restrict to calculate the snawer 6. Write the answer of the end of the calculation. | | |
| Column Addition – with regrouping. | Make bo grid. | th numb | ers on a pl | ace value 146 | Children can draw a pictorial representation of the columns and place value counters to further support their learning and | Children follow the 'Steps to Success' to regroup and form the calculation correctly: | | |
| | 999 | the units | and excha | <u>+ 527</u> nge <mark>10</mark> ones | understanding. | + Addition + H T O T O H T O 1 3 7 ⊕ 2 5 = 1 6 2 H T O Always start in the ones 1 3 7 column and work to the left. 2 5 1 6 2 Don't forget, if you pass ten, save it helow the line and add it on later! | | |





Add up the rest of the columns, exchanging the 10 counters from one column for the next place value column until every column has been added.

This can also be done with Base 10 to help children clearly see that 10 ones equal 1 ten and 10 tens equal 100.

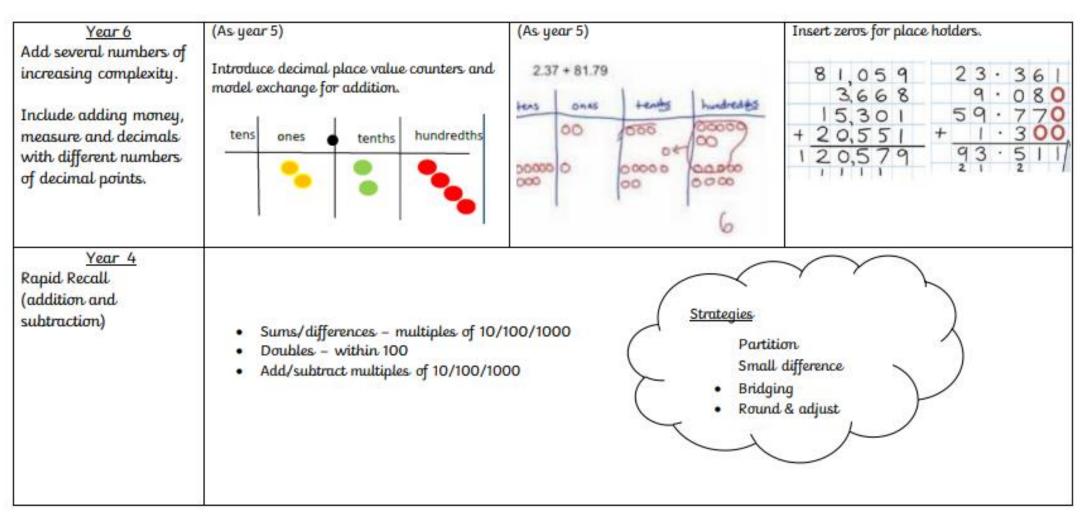
As children move on to decimals, money and decimal place value counters can be used to support learning. As the children move on, introduce decimals with the same number of decimal places and different. Money is used for context.



Years 4-6 - Addition

| Objective & Strategy | | Concrete Pictoria l | | | | Abstract | | |
|--|---|--|-------------|-------------------------------------|-----|--|-------------|---------------------------------------|
| Year 4 Add numbers with up to 4 digits | Children conti value counter ones for a ten | Draw representations using place value grid. | | | | Continue from previous work to carry hundreds as well as tens. | | |
| 4 uigus | | for a thousand. | | • • | ** | * | :: | Relate to money and measures. |
| | Hundreds | Tens | Ones | ** | ** | • | | 3517 |
| | | 000111 | 000 | 7 | 1 | 5 | 1 | + 396 |
| | | 1111 | :: | • | | • | | 3913 |
| Year 5 Add numbers with more than 4 digits. Add decimals with 2 decimal places, | | mal place value co ge for addition. | ounters and | (As year 4) 2.37 + 81.79 HeAS ON 45 | 1 | interes of | hundred \$5 | (As year 4) 72.8 + 54.6 + ₹ 7 ⋅ 55 |
| including money. | - | | | 00000 | 000 | | 6 | 127.4 1 1 € 3 · 4 |







Year 1 - Subtraction

| Objective & Strategy | Concrete | Pictorial | Abstract |
|-----------------------------------|--|---|--|
| Taking away ones from a whole. | Use physical objects, counters, cubes etc. to show how objects can be taken away. 4-3-1 | Cross out drawn objects to show how many has been taken away. The bar model can also be used. | 4-3= |
| Counting back. | Counting back (using number lines or number tracks) children start with 6 and count back 2. 6 - 2 = 4 1 2 3 4 5 6 7 8 9 10 | Children to represent what they see pictorially e.g. | Children to represent the calculation on a number line or number track and show their jumps. Encourage children to use an empty number line. |



| Finding the difference. | Finding the difference (using cubes, Numicon or Cuisenaire rods, other objects can also be used). Calculate the difference between 8 and 5: | Children to draw the cubes/other concrete objects which they have used or use the bar model to illustrate what they need to calculate. | Find the difference between 8 and 5. 8 - 5, the differences is Children to explore why 9 - 6 = 8 - 5 = 7 - 4 have the same difference. |
|---|--|--|---|
| Represent and use number bonds and related subtraction facts within 20. (Part part whole model) | Link to addition — use the PPW model to model the inverse. | Use pictorial representations to show the parts. | Move to using numbers within the part whole model. |
| | If 10 is the whole and 6 is one of the parts, what is the other part? $10 - 6 = 4$ | | 7 |



Year 2 - Subtraction

| Objective & Strategy | Concrete | Pictorial | Abstruct |
|--|---|--|--------------|
| Partitioning to subtract – without regrouping. (friendly numbers) | Use dienes to show how to partition the number when subtracting without regrouping. 34 - 13 = 21 | Children draw representations of dienes and cross off. 43 - 21 = 22 | 43 - 21 = 22 |
| | NAME OF SEC. | | |
| (crossing one ten, crossing more than one | Use a bead string to model counting to the next ten and the rest. 34 - 28 = | Use a number line to count on to the next ten and then the rest. | 93 – 76 = 17 |
| ten, crossing the hundreds) | 28 30 34 | 76 80 90 93 'counting on' to find 'difference' | |



Year 3 - Subtraction

| Objective & Strategy | Concrete | Pictorial | Abstruct |
|--|--|--|---|
| Column subtraction without regrouping. (friendly numbers) | Column method using base ten. 10s 1s 10s 1s 4 1 | pictorially. 10s 1s 1111 illi | Column method or children could count back 7. 4 8 - 7 4 1 Children use their 'Steps to Success' to format the question correctly: "Staps for Success" 1. Write your calculation, label your digits and circle the operation. 2. Children rethod to calculate the answer. 6. Write the answer at the end of the calculation. |
| Column subtraction with regrouping. | Column method using base 10 and having to exchange. 41 - 26 = | Represent the place value counters pictorially; remembering to show what has been exchanged. | Formal column method using 'Steps to Success'. Children must understand what has happened when they have crossed out, 10 to HTO digits. 162027 = 135 HTO Start in your ones. If you can't do it, exchange 10 or 100 across. HTO Start in your ones. If you can't do it, exchange 10 or 100 across. |



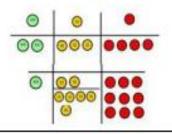
Years 4-6 - Subtraction

| Objective & Strategy | Concrete | Pictorial | Abstract |
|--|---|--|--|
| Year 4 Subtracting tens and ones — up to 4 digits. (introduce decimal subtraction through context of money) | Model process of exchange using numicon, base ten and then move to place value counters. 234 - 179 = | Represent the place value counters pictorially; remembering to show what has been exchanged. | Formal column method. Children must understand what has happened when they have crossed out digits. 2 × 5 4 - 1 5 6 2 1 1 9 2 |
| Year 5 Subtract with at least 4 digits, including money and measures. | Model process of exchange using numicon, base ten and then move to place value counters. 234 - 179 = | Represent the place value counters pictorially; remembering to show what has been exchanged. | Formal column method. Children must understand what has happened when they have crossed out digits. Use zeros for place holders. |
| (subtract with decimal values, including mixtures of integers and decimals and aligning the decimal) | 00 000 000 | 000 0000 | - 2128 28,928 - 372.5 6796.5 |

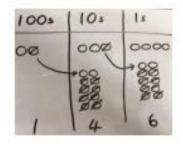


Year 6

Subtract with increasingly large, more complex, numbers and decimal values. Model process of exchange using numicon, base ten and then move to place value counters.



Represent the place value counters pictorially; remembering to show what has been exchanged.



Increasingly large and more complex numbers.

1/10/5 · 1/4/1 9 kg - 36 · 080 kg 69 · 339,kg



Year 1 - Multiplication

| Objective & Strategy | Concrete | Pictorial | Abstract |
|---------------------------|---|--|---|
| Doubling numbers. | Use practical activities using manipulatives including cubes and Numicon to demonstrate doubling. | Draw pictures to show how to double numbers. | Partition a number and then double each part before recombining it back together. |
| | double 4 is 8 4 × 2 = 8 + = = = = = = = = = = = = = = = = = = | Double 4 is 8 | 16 10 6 1x2 1 x2 20 + 12 = 32 |
| Counting in multiples. | Count the group as children are skip counting, children may use their fingers to help. | Children make representations to show counting in multiples. | Count in multiples of a number aloud. Write sequences with multiples of numbers. |
| | | 2 2 2 2 2 2 2 2 2 2 2 3 3 6 6 6 6 6 6 6 | 2, 4, 6, 8, 10 5, 10, 15, 20, 25, 30 |



| Repeated grouping/repeated addition. | 3 x 4 = 4 + 4 + 4 = There are 3 equal groups, with 4 in each group. | Children to represent the practical resources in a picture and use a bar model. 88 88 88 | $3 \times 4 = 12$ $4 + 4 + 4 = 12$ |
|--|--|---|------------------------------------|
| Understanding arrays. | Use objects laid out in arrays to find the answers to 2 lots of 5, 3 lots of 2s. | Draw representations of arrays to demonstrate understanding. | 3 x 2 = 6 2 x 5 = 10 |



Year 2 - Multiplication

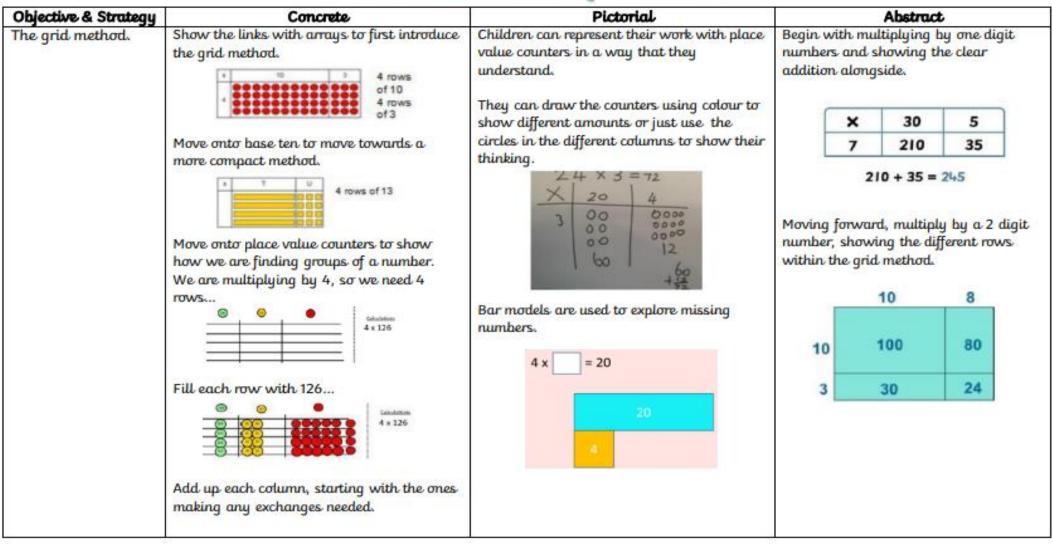
| | | ų – | |
|---|---|---|---|
| Objective & Strategy | Concrete | Pictoria l | Abstruct |
| Doubling numbers. | Model doubling using dienes and place value counters. Doubling 26 | Draw pictures and representations to demonstrate how to double numbers | Partition a number and then double each part before recombining it back together. |
| | | | 16 10 6 1 _{x2} 20 + 12 = 32 |
| Counting in multiples of 2, 5 and 10 from 0. (repeated addition) | Count the groups as children are skip counting, children may use their fingers to help. Progress onto bar models. 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 = 40 | Number lines, counting sticks and bar models should be used to show representation of counting in multiples. 3 3 3 3 3 | Count in multiples of a number aloud. Write sequences with multiples of numbers. O, 2, 4, 6, 8, 10 O, 3, 6, 9, 12, 15 O, 5, 10, 15, 20, 25, 30 4 x 3 = |



| Multiplication is commutative. | Pupils should understand that an array can represent different equations and that, as multiplication is commutative, the order of the multiplication does not change the answer. | Use representations of arrays to show different calculations and explore commutativity. | 12 = 3 x 4 12 = 4 x 3 Use an array to write multiplication sentences and reinforce repeated addition. 5 + 5 + 5 = 15 3 + 3 + 3 + 3 + 3 = 15 |
|--|--|---|---|
| Using the inverse. (this should be taught alongside division, so pupils learn how the two operations work alongside each other) | | 8 x = | 5 x 3 = 15 3 x 5 = 15 2 x 4 = 8 4 x 2 = 8 8 + 2 = 4 8 + 4 = 2 8 = 2 x 4 8 = 4 x 2 2 = 8 + 4 4 = 8 + 2 Show all 8 related fact family sentences. |



<u>Year 3 - Multiplication</u>





| | Then you have your answer. |
|---|---|
| Rapid Recall (multiplication and division | Multiplication and division facts for 2, 5, 10, 3, 4 and 8 times tables. Double-double'/'half-half' links within the listed times tables. Associativity (pushing numbers around) Using what I already know |



<u>Year 4 - Multiplication</u>

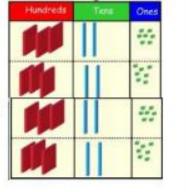
| Objective & Strategy | Concrete | Pictorial | Abstract |
|--|--|---|--|
| The grid method | Use place value counters to show how | Children can represent their work with place | Multiply 3 digit by 1 digit numbers |
| (recap from Year 3 for | we are finding groups of a number. | value counters in a way that they | using the grid method. |
| 2 digit x 1 digit). | We are multiplying by 4 so we need 4 | understand. | |
| Children progress to multiplying 3 digit numbers by 1 digit (Year 4 expectation). | Fill each row with 126. Add up each column, starting with the | They can draw the counters using colour to show different amounts or just use the circles in the different columns to show their thinking. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | x 300 20 7 4 1200 80 28 1200 + 80 + 28 = 1,308 |
| | ones making any exchanges needed. | + | |



Column Multiplication. Children can continue to be supported by place value counters at this stage of multiplication. This is initially done where

there is no regrouping.

321 x 2 = 642



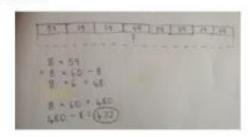
It is important at this stage that they always multiply the ones column first.

The corresponding long multiplication is modelled alongside this method.

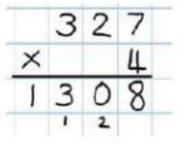
The grid method may be used to show how this relates to a formal written method (see abstract column).

| × | 300 | 20 | 7 |
|---|------|----|----|
| 4 | 1200 | 80 | 28 |

Bar modelling and number lines can support learners when solving problems with multiplication alongside the formal written methods.



The grid method can then be progressed onto the compact method.

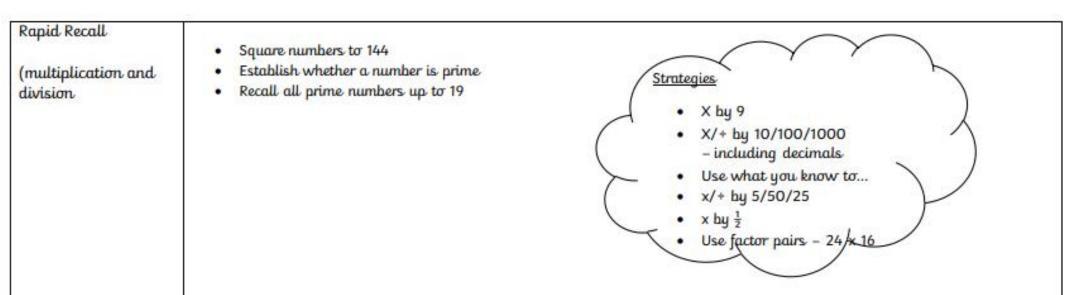




Year 5 - Multiplication

| Objective & Strategy | Concrete | Pictorial | Abstruct |
|---|--|--|--|
| Column Multiplication (3 and 4 digits x 1 digit). | place value counters at this stage of multiplication. This is initially done where | The grid method may be used to show how this relates to a formal written method (see abstract column). | The grid method can then be progressed onto the compact method. |
| | there is no regrouping. | x 300 20 7 4 1200 80 28 | 327 × 4 1308 |
| Column Multiplication – Long multiplication. | | 10 8 | Progress to using the column method for long 1 8 multiplication. 1 3 |
| | | 3 30 24 | 1234 180 |
| | | Continue to use bar modelling to support problem solving. | 7404 (1234×6) 12340 (1234×10) 19,744 |







Year 6 - Multiplication

| Objective & Strategy | Concrete | Pictorial | Abstruct |
|--|----------|---|---|
| Column Multiplication – Long multiplication. | | 10 100 80 10 3 30 24 Continue to use bar modelling to support problem solving. | Progress to using the column method for long multiplication. 1 8 |
| Multiplying decimals up to 2 decimal places by a single digit. | | | Remind children that the single digit belongs in the ones column. Line up the decimal points in the question and answer. 3 · 1 9 × 8 2 5 · 5 2 |



| | When appropriate, children can use their place value knowledge to make the number being multiplied 10, 100 or 1000 times bigger and then multiply and make the answer 10, 100 or 1000 times smaller. |
|--|--|
| | $x = \frac{319^{(x100)}}{8}$ $\frac{2552^{(+100)}}{2552} = 25.52$ |



Year 1 - Division

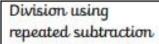
| Objective & Strategy | Concrete | Pictorial | Abstruct |
|----------------------|---|---|--|
| Division as sharing | Sharing using a range of objects: 6 + 2 = | Use pictures or shapes to share quantities: | Children continue with pictorial method until fully secure. Children should also be encouraged to use their 2 times tables facts. |
| | | ··· ··· | |
| | | Sharing: | ? To progress further, children can then be moved onto: |
| | | 12 shared between 3 is 4 | '6 shared between 2 is 3' |



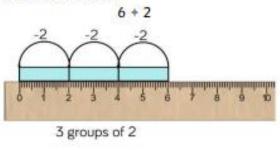
Year 2 - Division

| Objective & Strategy | Concrete | Pictorial | Abstract |
|----------------------|---|---|--|
| Division as sharing | I have 10 cubes, can you share them into 2 equal groups? | Children use pictures or shapes to share quantities: \$\mathref{F} \mathref{F} | 12 ÷ 3 = 4 |
| Division as grouping | Divide quantities into equal groups. Use cubes, counters, objects or place value counters to aid understanding. | Use number lines for grouping: 0 1 2 3 4 5 8 7 8 9 10 11 12 0 1 2 3 4 5 8 7 8 9 10 11 12 0 20 ÷ 5 = ? 5 x ? = 20 | 28 + 7 = 4 Divide 28 into 7 groups. How many are in each group? |

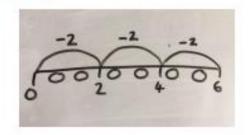




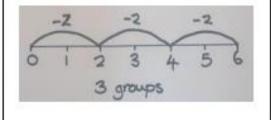
Repeated subtraction using Cuisenaire rods above a ruler:



Children to represent repeated subtraction pictorially:



Abstract number line to represent the equal groups that have been subtracted:





Year 3 - Division

| Objective & Strategy | Concrete | Pictorial | Abstract Find the inverse of multiplication and division sentences by creating eight linking number sentences: 7 x 4 = 28 4 x 7 = 28 | |
|--------------------------|---|---|--|--|
| Division with arrays | Link division to multiplication by creating an array and thinking about the number sentences that can be created: | Draw an array and use lines to split the array into groups to make multiplication and division sentences: | | |
| | 15 + 3 = 5 5 x 3 = 15 15 + 5 = 3 3 x 5 = 15 | 15 + 3 = 5 5 x 3 = 15 15 + 5 - 3 3 x 5 = 15 | 28 + 7 = 4 28 + 4 = 7 28 = 7 x 4 28 = 4 x 7 4 = 28 + 7 7 = 28 + 4 | |
| Division with remainders | This can be done with lollipop sticks or Cuisenaire rods: 13 + 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: There are 3 whole squares, with 1 left over. | 13 + 4 = 3 remainder 1 Children should be encouraged to use their times table facts; they could also represent repeated addition on a number line: '3 groups of 4, with 1 left over' | |



Year 4-6 - Division

| Objective & Strategy | Concrete | Pictorial | Abstract | |
|---|---|---|---|--|
| Short division with a remainder Year 4 Up to 3 digits by 1 digit Year 5 Up to 4 digits by a 1 digit with remainders Year 6 Up to 4 digits by a 1 digit and then progress to long division (next objective) | Short division using place value counters to group: 615 ÷ 5 100s 10s 1s 000000 1 2 3 1. Make 615 with place value counters. 2. How many groups of 5 hundreds can you make with 6 hundred counters? 3. Exchange 1 hundred for 10 tens. 4. How many groups of 5 tens can you make with 11 ten counters? 5. Exchange 1 ten for 10 ones. 6. How many groups of 5 ones can you make with 15 ones? | Children can continue to use drawn diagrams with dots or circles to help them divide numbers into equal groups: However, children should be encouraged to move towards counting in multiples to divide more efficiently. | Begin with divisions that divide equally with no remainders: 2 1 8 4 8 7 2 Move onto divisions with a remainder 8 6 r 2 5 4 3 2 Year 5/6 Children can then progress onto expressing the remainder as fraction (e.g. 5/8) and decimals (e.g. 663.625). 846 ÷ 4 | |



Long division with remainder

Year 6 - Division

| Be | egin by modelling method with a 1-digit divisor. | | | | | |
|---------------|--|------------------------------------|---|--|--|--|
| Long Division | Divide : | | Dividing 7 tens by 3, we get 2 tens, and some extra. | | | |
| | Multiply: | 2 3) 74 6 → | 3×2 tens = 60 tens. | | | |
| | Subtract : | 3) 74 -6 1 | Subtracting 6 tens from 7 tens | | | |
| | Bring down : | 3) 74 -6 14→ | 1 ten 4 ones = 14 ones | | | |
| | Repeat or find the Remainder : | 3) 74 - <u>6</u> -14 -12→ | Dividing 14 ones by 3, we get 4 ones and some extra. 3x 4 ones = 12 ones. Remainder | | | |
| | Check: | | our answer: = Divisor × Quotient + Remainder | | | |

Divide- the number inside the house with the number outside of the house. Put the answer on top.

Multiply -the number outside of the house by the number on top of the house. Put this answer below the number inside the house.

Subtract- the number inside the house from the number below the inside number.

Bring down- the next number in the dividend.

Repeat- all the steps repeated as many times as needed until you get down to 0.

If there is a leftover this is your remainder.

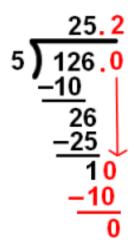
When moving onto using long division with a 2-digit divisor, children can write out multiples first:

| 2 | 2 | 6(| 7 | 1 | 0 |
|---|---|----|---|---|---|
| | | | | | |

22, 44, 66, 88, 110 etc



Long division with decimal remainders



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.