

Concrete / Pictorial / Abstract Maths Calculation Policy

This policy has been largely adapted from the White Rose Maths Hub Calculation Policy with further material added. It is a working document and will be revised and amended as necessary. Many variations have been included to provide teachers with a range of tools to support pupils in their grasp of number and calculation. To ensure consistency for pupils, it is important that that the mathematical language used in maths lessons reflects the vocabulary used throughout this policy.



Recommended practice delivering a mastery approach

True mastery aims to develop all children's mathematical understanding at the same pace. As much as possible, children should be accessing the same learning. Differentiation should primarily be through support, scaffolding and deepening, not through task.

Consistency in language is essential for pupils to understand the concepts presented in mathematics. If other, 'child-friendly' terminology is used, this must be alongside the current terminology recommended by maths specialists. Using this will support children with their examinations and throughout secondary school.

Evidence repeatedly shows that mixed ability seating increases less confident pupils' perception of mathematical capability, which impacts positively upon outcomes. While not a school policy, it is recommended to avoid ability groups. This presents a challenge in ensuring the more confident mathematicians are being extended. An extension tasks to deepen understanding is the most simplistic way around this.

Concrete, pictorial, abstract (CPA) concepts should not be confused as differentiation for lower, middle, higher attaining children. CPA is an approach to be used with the whole class and teachers should promote each area as equally valid. Manipulatives in particular must not be presented as a resource to support the less confident or lower attaining pupils.

Used well, manipulatives can enable pupils to inquire themselves- becoming independent learners and thinkers. They can also provide a common language with which to communicate cognitive models for abstract ideas. Drury, H. (2015) Children aged seven to ten years old work in primarily concrete ways and that the abstract notions of mathematics may only be accessible to them through embodiment in practical resources. Jean Piaget's (1951)

Real things and structured images enables children to understand the abstract. The concrete and the images are a means for children to understand the symbolic so it's important to move between all modes to allow children to make connections. Morgan, D. (2016)

The abstract should run alongside the concrete and pictorial stage as this enables pupils to better understand mathematical statements and concepts.

Key Stage 1

The following pages (KS1) are to demonstrate previous learning and to be used as a tool for catch up learning in the case of children performing below ARE expectations.

| Objective / Strategy | Concrete | Pictorial | Abstract |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 bar. 8 3 port whole 2 | 8 = 5 + 3 5 + 3 = 8 Use the part part whole diagram a shown above to move into the abstract. Include missing number questions to support varied fluency: 8 = ? + 3 5 + ? = 8 |
| 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. | 10 11 12 13 14 15 16 17 16 19 20 12 + 5 = 17 Start at the larger number on the number line and count on in ones or in one jump to find the answer. | 5 + 12 = 17 Place the larger number in your head and count on the smaller number to find your answer. |
| Regrouping to make 10. This is an essential skill for column addition later. | 6 + 5 = 11 Start with the bigger number | 3 + 9 = Use pictures or a number line. Regroup or | 7 + 4= 11 If I am at seven, how many more do I need to make 10? How many more do I add on now? |
| | and use the | partition the smaller number using the part, part whole model to make 10. | |

| Objective/Strategy | Concrete | Pictorial | Abstract |
|-------------------------------------------------------------------------------|----------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Represent & use number bonds and related subtraction facts within 20 | 2 more than 5. | 5 + 2 = | Include missing number questions: 8 = ? + 3 5 + ? = 8 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.' |

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| Objective /Strategy | Concrete | Pictorial | Abstract |
|------------------------|------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------|
| Adding multiples of | 50= 30 = 20 | | 20 + 30 = 50 |
| ten | | | 70 = 50 + 20 |
| | | 0 tens + 5 tens =tens 30 + 50 = | 40 + □ = 60 |
| | Model using dienes and bead strings | Use representations for base ten. | |
| Use known number facts | 25 | | Explore commutativity of addition by swapping the addends to build a fact family. |
| Part, part whole | 20/ | | Explore the concept of the inverse relationship of addition and subtractions and use this to |
| , a, pa | | + = 20 20 - = | check calculations. |
| | And a | + = 20 20 - = | + 1 = 16 16 - 1 = |
| | Children explore ways of making numbers within 20 | | 1 + = 16 16 - = 1 |
| Using known facts | | | 3 + 4 = 7 |
| | | ∵ + ⊹ = .∜ | leads to |
| | | + = | 30 + 40 = 70 |
| | | + = = = | leads to |
| | | Children draw representations of H,T and O | 300 + 400 = 700 |

| Objective/Strategy | Concrete | Pictorial | Abstract |
|------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bar model | 3+4=7 | 7 + 3 = 10 | 23 25 ? 23 + 25 = 48 |
| Add a two digit number and ones | 17 + 5 = 22 Use ten frame to make 'magic ten Children explore the pattern. 17 + 5 = 22 27 + 5 = 32 | Use part part whole and number line to model. 17 + 5 = 22 16 + 7 16 + 7 | 17 + 5 = 22 Explore related facts 17 + 5 = 22 5 + 17 = 22 22 - 17 = 5 22 - 5 = 17 Lead into recording in column format, to reinforce place value and prepare children for formal written methods with larger values. |
| Add a 2 digit number 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 | 47 67 72 47 67 70 72 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 |

| Objective/Strategy | Concrete | Pictorial | Abstract |
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| | | | Lead into recording in column format, to reinforce place value and prepare children for formal written methods with larger values. |
| Add three 1-digit numbers | Combine to make 10 first if possible, or bridge 10 then add third digit | Regroup and draw representation. | 4+7+6 = 10+7 = 17 Combine the two numbers that make/ bridge ten then add on the third. |

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| Objective /St | trategy Concrete | Pictorial | Abstract |
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| Taking away ones. | Use physical objects, counters, cubes etc to show how objects can be taken away. 4—2 = 2 6—4 = 2 | Cross out drawn objects to show what has been taken away. | 7—4 = 3 16—9 = 7 |
| Counting back | Move objects away from the group, counting backwards. Move the beads along the bead string as you count backwards. | 5-3=2 | Put 13 in your head, count back 4. What number are you at? |
| Find the Difference | Compare objects and amounts 7 'Seven is 3 more than four' 4 T on 2 years older than my sister' 5 Penals Lay objects to represent bar model. | Count on using a number line to find the difference. | Hannah has 12 sweets and her sister has 5. How many more does Hannah have than her sister.? |

| Objective/Strategy | Concrete | Pictorial | Abstract |
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| Represent and use number bonds and related subtraction facts within 20 | Link to addition. Use PPW model to model the inverse. | | Move to using numbers within the part whole model. |
| Include subtracting zero Part Part Whole model | if 10 is the whole and 6 is one of the arts, what s the other part? 10—6 = 4 | | Include missing number problems: 12 - ? = 5 7 = 12 - ? |
| Make 10 | 14—9 | Use pictorial representations to show the part. 13 - 7 = 6 | 16—8 How many do we take off first to get to 10? How many left to take off? |
| | Make 14 on the ten frame. Take 4 away to make ten, then take one more away so that you have taken 5. | | |

| Objective/Strategy | Concrete | Pictorial | Abstract |
|---------------------------------------------|----------|----------------------------------------|---------------------------------------------------------|
| Bar model Including the inverse operations. | 5-2=3 | ************************************** | 8 2 10 = 8 + 2 10 = 2 + 8 10-2 = 8 10-8 = 2 |

| Objective & Strategy | Concrete | Pictorial | Abstract |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------|
| Regroup a ten into ten ones | Use a PV chart to show how to change a ten into ten ones, use the term 'take and make' | 20 - 4 = | 20—4 = 16 |
| Partitioning to subtract without regrouping. 'Friendly numbers' | 34—13 = 21 Use Dienes to show how to partition the number when subtracting without regrouping. | Children draw representations of Dienes and cross off. 43—21 = 22 | 43—21 = 22 |
| Make ten strategy Progression should be crossing one ten, crossing more than one ten, crossing the hundreds. | 34—28 Use a bead bar or bead strings to model counting to next ten and the rest. | 76 80 90 93 'counting on' to find 'difference' Use a number line to count on to next ten and then the rest. | 93-76 = 17 |

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| Objective / Strategy | Concrete | Pictorial | Abstract |
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| Doubling | Use practical activities using manipultives including cubes and Numicon to demonstrate doubling | Double 4 is 8 | Partition a number and then double each part before recombining it back together. 16 10 10 12 20 4 12 32 |
| Counting in multiples (2s, 5s, 10s) | Count the groups as children are skip counting, children may use their fingers as they are skip counting. | Children make representations to show counting in multiples. | Count in multiples of a number aloud. Write sequences with multiples of numbers. 2, 4, 6, 8, 10 5, 10, 15, 20, 25, 30 |

| Objective/Strategy | Concrete | Pictorial | Abstract |
|--------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Making equal groups and counting the total | □ x = 8 Use manipulatives to create equal groups. | Draw 2 x 3 = 6 Draw and make representations | 2 x 4 = 8 |
| Repeated addition | Use different objects to add equal groups | Use pictorial including number lines to solve prob. There are 3 sweets in one bag. How many sweets are in 5 bags altogether? 3+3+3+3+3 15 | Write addition sentences to describe objects and pictures. 2+2+2+2+2=10 |
| Understanding arrays | Use objects laid out in arrays to find the answers to 2 lots 5, 3 lots of 2 etc. | Draw representations of arrays to show understanding | 3 x 2 = 6 2 x 5 = 10 |

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| Objective / Strategy | Concrete | Pictorial | Abstract |
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| Doubling | Model doubling using dienes and PV counters. | Draw pictures and representations to show how to double numbers | Partition a number and then double each part before recombining it back together. 16 10 6 1x2 1 x2 20 + 12 = 32 |
| Counting in multiples of 2, 3, 4, 5, 10 from 0 (repeated addition) | Count the groups as children are skip counting, children may use their fingers as they are skip counting. Use 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. | Count in multiples of a number aloud. Write sequences with multiples of numbers. 0, 2, 4, 6, 8, 10 0, 3, 6, 9, 12, 15 0, 5, 10, 15, 20, 25, 30 |
| | | 3 3 3 3 | 4 × 3 = |

| Objective / Strategy | Concrete | Pictorial | Abstract | Ĭ |
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| Multiplication is commutative | Create arrays using counters and cubes and Numicon. Pupils should understand that an array can represent different equations and that, as multiplication is commutative, the order of the multiplication does not affect the answer. | Use representations of arrays to show different calculations and explore commutativity. | 12 = 3 × 4 12 = 4 × 3 Use an array to write multiplication sentences and reinforce repeated addition. 5 + 5 + 5 = 15 3 + 3 + 3 + 3 + 3 = 15 5 × 3 = 15 3 × 5 = 15 | |
| Using the Inverse This should be taught alongside division, so pupils learn how they work alongside each other. | | X | 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. | 1 |

| Objective/Strategy | Concrete | Pictorial | Abstract |
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| Division as sharing Use Gordon ITPs for modelling | | Children use pictures or shapes to share quantities. Sharing: Sharing: Shared between 2 is 4 | 12 shared between 3 is 4 |
| | I have 10 cubes, can you share them equally in 2 groups? | | |

| Objective/Strategy | Concrete | Pictorial | Abstract |
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| Division as sharing | I have 10 cubes, can you share them equally in 2 groups? | Children use pictures or shapes to share quantities. 8 + 2 = 4 Children use bar modelling to show and support understanding. | 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 12 ÷ 4 = 3 0 1 2 3 4 5 6 7 8 9 10 11 12 12 ÷ 3 = 4 Think of the bar as a whole. Split it into the number of groups you are dividing by and work out how many would be within each group. | 28 ÷ 7 = 4 Divide 28 into 7 groups. How many are in each group? |

| Objective/Strategy | Concrete | Pictorial | Abstract |
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| Division as grouping | Use cubes, counters, objects or place value counters to aid understanding. 24 divided into groups of 6 = 4 96 + 3 = 32 | Continue to use bar mode/ing to aid solving division problems. 20 20 + 5 = ? 5 x ? = 20 | How many groups of 6 in 24? 24 ÷ 6 = 4 |
| 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 | Find the inverse of multiplication and division sentences by creating eight linking number sentences. 7 x 4 = 28 4 x 7 = 28 28 ÷ 7 = 4 28 ÷ 4 = 7 28 = 7 x 4 |
| | Ec 15 ÷ 3 = 5 | | 28 = 4 x 7 |

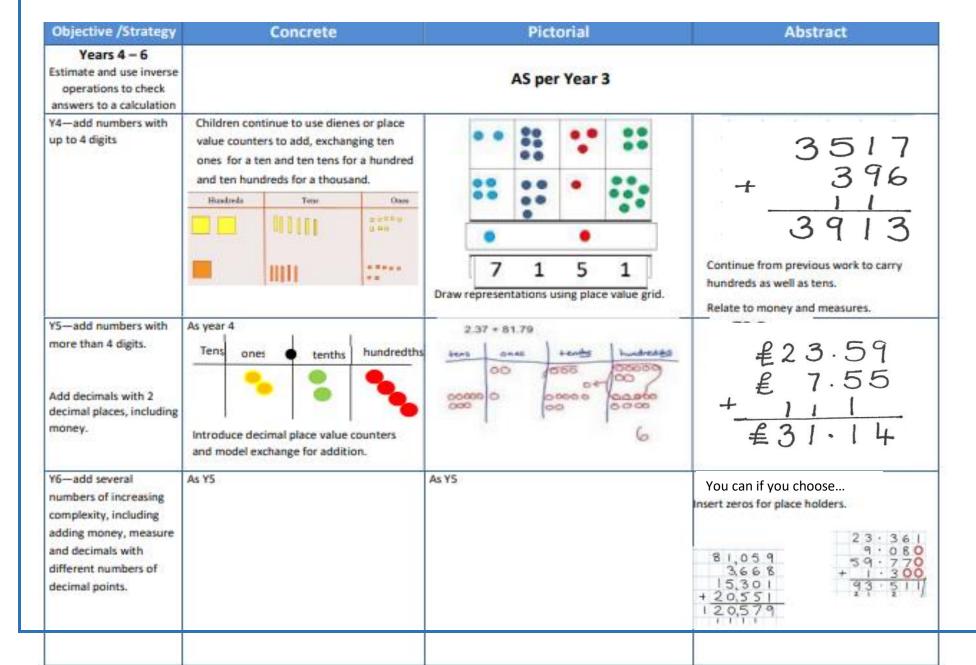
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Key Stage 2

The following slides are key stage appropriate and should be a starting point for our children.

| Objective /Strategy | Concrete | Pictorial | Abstract |
|--------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Column Addition—no regrouping (friendly numbers) | T O Dienes or numicon | Children move to drawing the counters using a tens and one frame. | 2 2 3 |
| Add two or three 2 or 3digit numbers. | Add together the ones first, then the tens. | tens ones | + 1 1 4 |
| | 7 9 © 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 3 3 7 Add the ones first, then the tens, then the hundreds. |
| Column Addition with regrouping. | Tens Units 39 | 3 4 +1 7 | $ \begin{array}{r} 20 + 5 \\ \underline{40 + 8} \\ 60 + 13 = 73 \end{array} $ |
| | 5 4 | 5 1 | Start by partitioning 550 the numbers before |

| Objective /Strategy | Concrete | Pictorial | Abstract |
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| | 9 9 9 9 9 9 46 + 27 = 73 | | |
| Estimate the answers to questions and use inverse operations to check answers | Estimating 98 + 17 = ? 100 + 20 = 120 | Use number lines to illustrate estimation. | Building up known facts and using them to illustrate the inverse and to check answers: 98 + 18 = 116 |



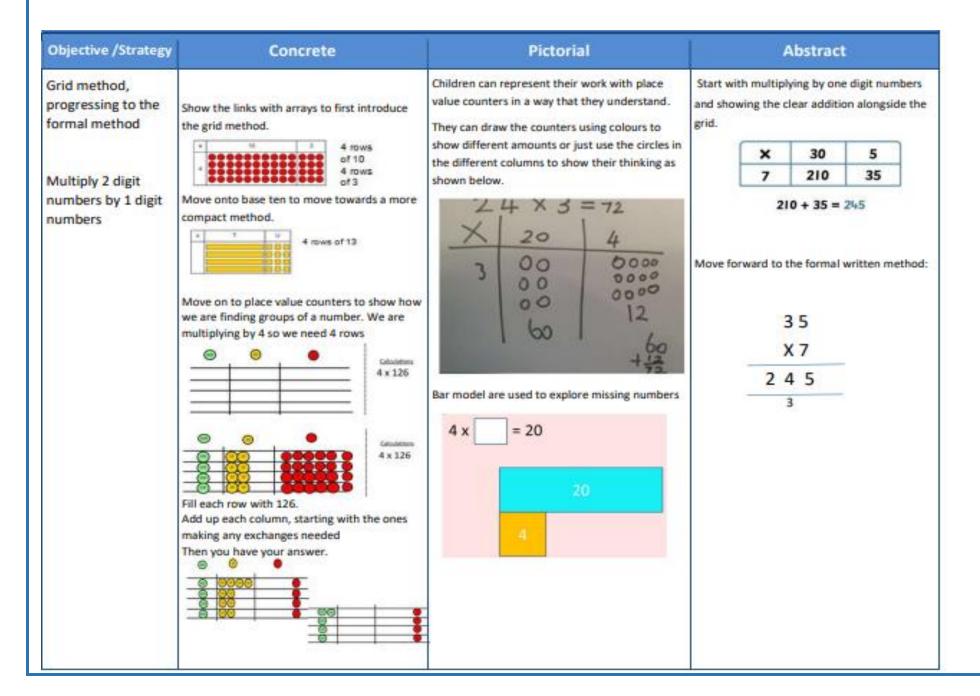
| Objective/ Strategy | Concrete | Pictorial | Abstract |
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| Subtract numbers mentally, including: three digit number + ones three digit number + tens three digit number + | | 90 100 | Vary the position of the answer and question. Expose children to missing number questions and vary the missing part of the calculation. 678 = ? -1 688 - 10 = ? 678 = ? -100 |
| Column subtraction without regrouping (friendly numbers) | 47—32 Use base 10 or Numicon to model | Draw representations to support understanding | $47-24=23$ $-\frac{40+7}{20+3}$ Intermediate step may be needed to lead to clear subtraction understanding. 32 -12 20 |
| Column subtraction with regrouping | Begin with base 10 or Numicon. Move to pv counters, modelling the exchange of a | 45 -29 Tens 10 nes 16 16 | 836-254*582 Begin by partitioning into pv columns 728-582=146 Then move to formal method. |
| | make' for exchange. | Children may draw base ten or PV counters | ** *2 8 formal method. |

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| Objective /Strategy | Concrete | Pictorial | Abstract |
|---------------------------|-----------|-------------------------------------------------------------|----------|
| Subtracting tens and ones | ⊚ ⊙ ● | Children to draw pv counters and show their exchange—see Y3 | 2 7 5 4 |
| up to 4 digits. | | | -1562 |

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ear 4-6 Subtraction

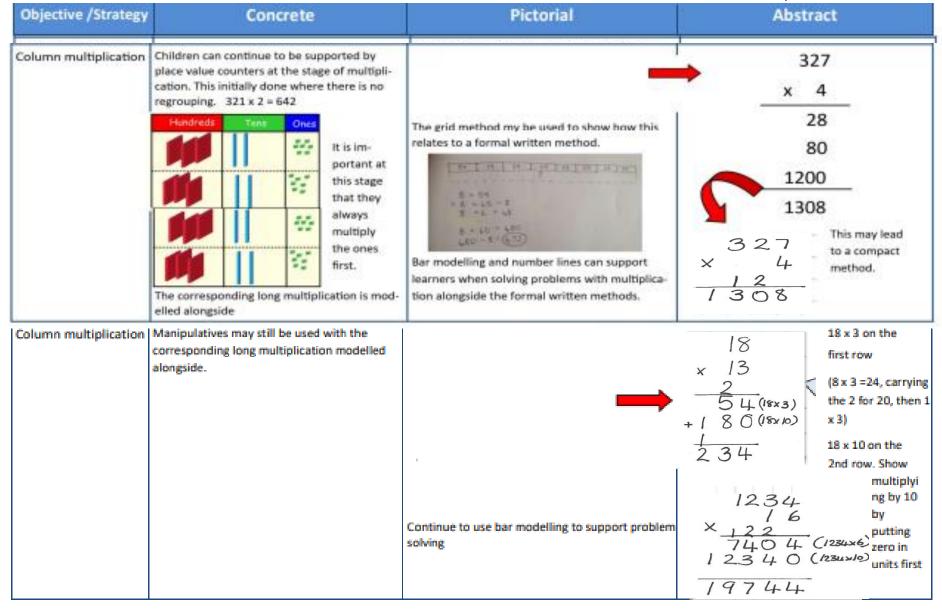


Year 3 Multiplication

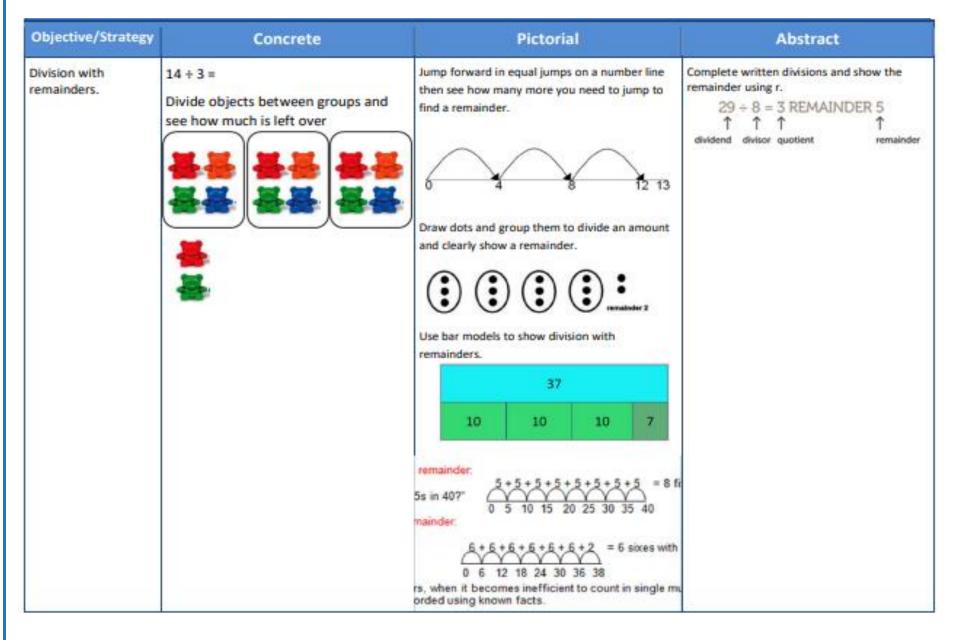
35 × 7 2 4 5

| Concrete | Pictorial | Abstract |
|----------|-----------|------------------------------------------|
| | | Three times as high, eight times as long |
| | | |
| | | ? x 5 = 20 |
| | | 20 ÷ ? = 5 |
| | | |
| | | 3 hats and 4 coats, how many different |
| | | outfits? |
| | | |
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| Objective/Strategy | Concrete | Pictorial | Abstract |
|-------------------------------------------------------------------------|----------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multiplying decimals up to 2 decimal places by a single digit. | | | Remind children that the single digit belongs in the units column. Line up the decimal points in the question and the answer. 3.19 $\times 8$ 1.7 $2.5 \cdot 5.2$ |



| Objective/Strategy | | Concret | te | Pictorial | Abstract |
|------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Divide at least 3 digit numbers by 1 digit. | 96÷3 | Tens 3 | Units 2 | Students can continue to use drawn diagrams with dots or circles to help them divide numbers into equal groups. | Begin with divisions that divide equally with no remainder. |
| Short Division | | 000 | Catastrians 42 ÷ 3 | | 4 8 7 2 Move onto divisions with a remainder. 8 6 r 2 3 5 4 3 2 |
| | bus stop m 42 ÷ 3= Start with sharing 40 | value counters to nethod alongside the biggest place into three groups or group and we have | value, we are | Encourage them to move towards counting in multiples to divide more efficiently. | Finally move into decimal places to divide the total accurately. 1 4 . 6 16 21 3 5 5 1 1 . 0 |
| | | nge this ten for te | | | 0663r5 8)5 ⁵ 3 ⁵ 0 ² 9 |

Long Division

Step 1-a remainder in the ones

4 does not go into 1 (hundred). So combine the 1 hundred with the 6 tens (160).

4 goes into 16 four times.

4 goes into 5 once, leaving a remainder of 1.

8 does not go into 3 of the thousands. So combine the 3 thousands with the 2 hundreds (3,200).

8 goes into 32 four times (3,200 + 8 = 400)

8 goes into 0 zero times (tens).

8 goes into 7 zero times, and leaves a remainder of 7.

Long Division

Step 1 continued...

When dividing the ones, 4 goes into 7 one time. Multiply $1 \times 4 = 4$, write that four under the 7, and subract. This finds us the remainder of 3.

Check: 4 × 61 + 3 = 247

When dividing the ones, 4 goes into 9 two times. Multiply $2 \times 4 = 8$, write that eight under the 9, and subract. This finds us the remainder of 1.

Long Division

Step 2—a remainder in the tens

| 1. Divide. | 2. Multiply & subtract. | 3. Drop down the next digit. |
|-------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------|
| t o | t o | 1 0 |
| 2)58 | 2)58 | 2 9 2) 5 <mark>8</mark> - 4 |
| Two goes into 5 two times, or 5 tens | To find it, multiply $2 \times 2 = 4$, write that | 1 8 Next, drop down the 8 of the ones |
| + 2 = 2 whole tens but there is a remainder! | 4 under the five, and subtract to find the remainder of 1 ten. | next to the leftover 1 ten. You combine the remainder ten with 8 ones, and get 18. |

| 1. Divide. | 2. Multiply & subtract. | 3. Drop down the next digit. |
|------------|-------------------------|------------------------------|
| t o | t o | t o |
| 2 9 | 29 | 2 9 |
| 2)58 | 2)58 | 2)58 |
| -4 | - 4 | - 4 |

Long Division 1. Divide. 2. Multiply & subtract. 3. Drop down the next digit. h 1 0 bto: 18 2)278 2)278 Multiply $1 \times 2 = 2$, write that 2 under Two goes into 2 one time, or 2 hundreds + 2 = 1 hundred. Next, drop down the 7 of the tens the two, and subtract to find the next to the zero. remainder of zero. Divide. Multiply & subtract. Drop down the next digit. hto hto: hto Divide 2 into 7. Place 3 into the Multiply $3 \times 2 = 6$, write that 6 under Next, drop down the 8 of the ones quotient. the 7, and subtract to find the next to the 1 leftover ten. remainder of 1 ten. 3. Drop down the next digit. 1. Divide. 2. Multiply & subtract. hto hto

4 2 0