

YEAR 4 MATHS WORKSHOP

Miss Kelly & Miss Hamilton

AIMS OF THE SESSION:

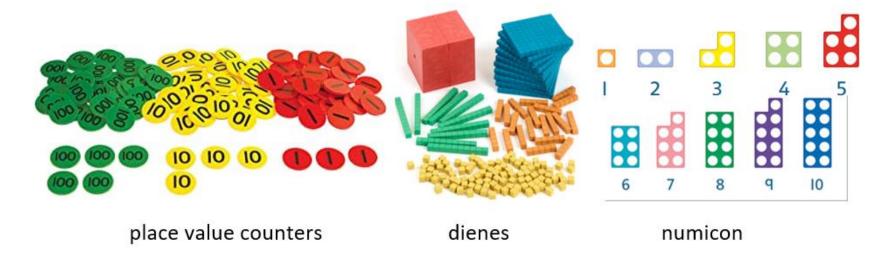
- To explain the concrete, pictorial and abstract approaches in maths
- To share the Wood Fold Maths sequence
- To discuss the written calculation policy
- To offer suggestions and ideas to support your child at home.



CPA APPROACH: Concrete, Pictorial and Abstract

Concrete:

Doing the maths

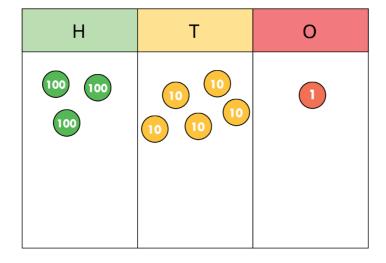


CPA APPROACH: Concrete, Pictorial and Abstract

Pictorial:

Seeing the maths

Making connections between the concrete and the pictorial representations and the pictorial and the abstract. E.g. part whole models, bar models, ten frames.



Use the bar models to find the equivalent fractions.



CPA APPROACH: Concrete, Pictorial and Abstract

Abstract:

The final stage is for children to understand abstract mathematical concepts, signs and notation.

When a child demonstrates with concrete models and pictorial representations that they have grasped a concept, we can be confident that they are ready to explore the abstract. At this stage, pupils are expected to have a depth of knowledge, which can now be applied without the need for physical or visual support strategies.

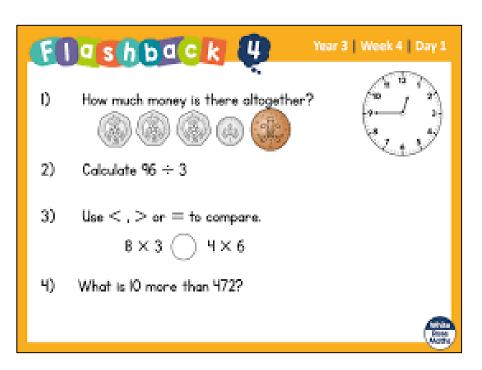
	6	4	5				7	8	2
+		8	6			+		3	5
	2	1	7				3	1	3
-	1	0	1			-	3	0	5
		-112-1							

WOOD FOLD MATHS SEQUENCE:

- Flashback 4
- Arithmetic
- Times Tables
- Get Ready
- New Learning
- Problem Solving & Reasoning

FLASHBACK 4:

Flashback 4 is a daily 4-question activity from White Rose Maths that serves as a starter to a lesson, reinforcing knowledge and skills from the previous lesson, week, and term to aid retention and promote a mastery-based approach to learning.



ARITHMETIC:

Arithmetic covers the four foundational operations: addition, subtraction, multiplication and division.

Arithmetic is essential because it forms the foundational building blocks for all other forms of mathematics.

The teacher will share an example with the children and discuss different strategies to answer the question. The children will then complete a set of 4 questions each day and then on the 5th day they will complete a quiz.

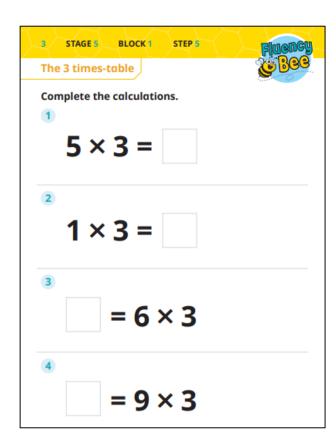
Example	34 + 12 =				
Q1	45 + 13 =				
Q2	22 + 16 =				
Q3	67 + 21 =				
Q4	80 + 15 =				
Recall Calculation	9 x 3 =				

TIMES TABLES:

Particular attention is placed on the children having security and fluency with times tables. Each child will be exposed to daily teaching of times tables in relation to the school's Times Tables Curriculum Overview, as well as a weekly test consisting of 25 multiplication and division questions.

By the end of Year 4 the children are expected to know all times tables up to 12x12

Multiplication Check – online assessment. June 2026. 25 questions, 2 ½ mins.



GET READY:

"Get Ready" in White Rose Maths refers to the initial part of a lesson where children are prompted to review and activate prior knowledge relevant to the new topic, ensuring they have the necessary foundation before moving on to the main part of the lesson.

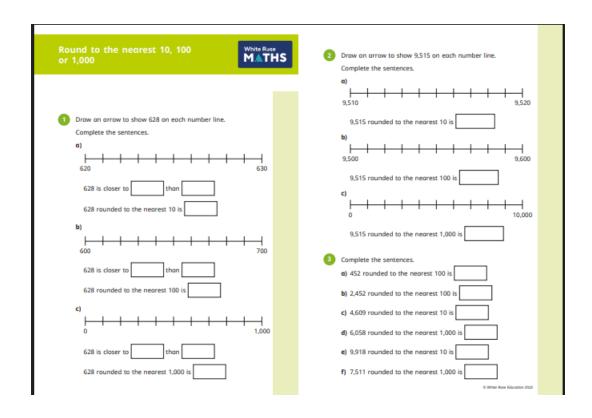
- 1) 28, 29, 30, 31, ____, ____, ____
- 2) 46, 45, 44, 43, ____, ____, ____
- 3) 1 ten is equal to _ ones.2 tens is equal to _ ones.
- 4) Make 526 with place value counters.

NEW LEARNING:

The main body of the lesson will be taught by the teacher, focusing on the individual learning elements of the curriculum.

Explaining, modelling, checking for understanding, then when ready, on to independent practice.

Learning in each lesson will be recorded in either Maths or White Rose books, with opportunities given for children to self and peer assess where possible.



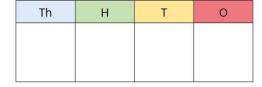
PROBLEM SOLVING & REASONING:

To conclude the lesson, children will complete reasoning problems that consolidates their understanding from the lesson.

Whitney puts some counters on a place value chart to make a number.







My number rounds to 6,000 when rounded to the nearest 10, 100 or 1,000

What could Whitney's number be?

What must Whitney's number be if she uses exactly 30 counters?

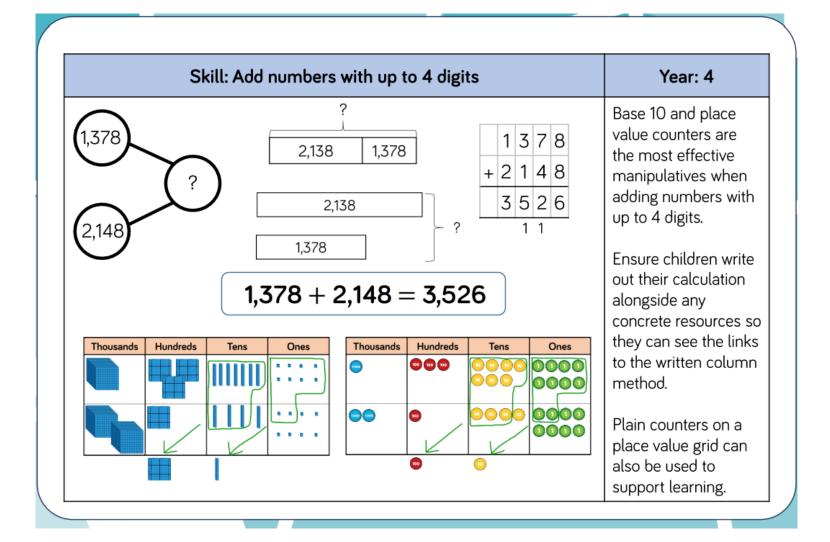
Round to the nearest 10, 100 or 1,000

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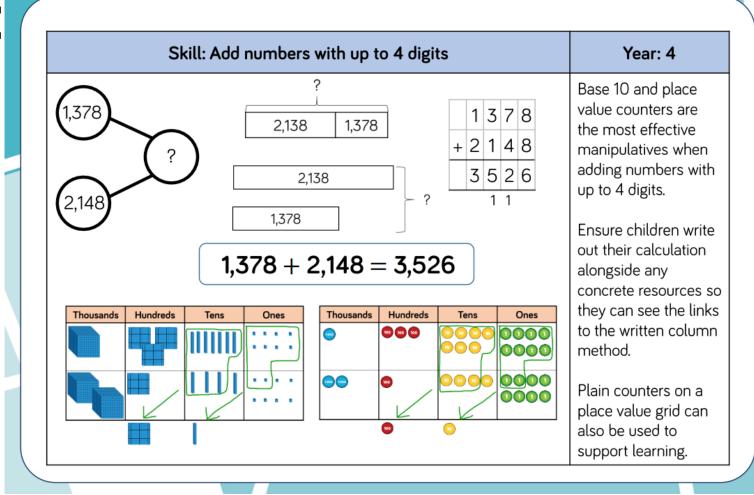
ADDITION:

Vocabulary:

- Add
- Column addition
- Exchange
- Estimate
- More
- Plus
- Sum
- Total
- Altogether
- Increase
- Inverse



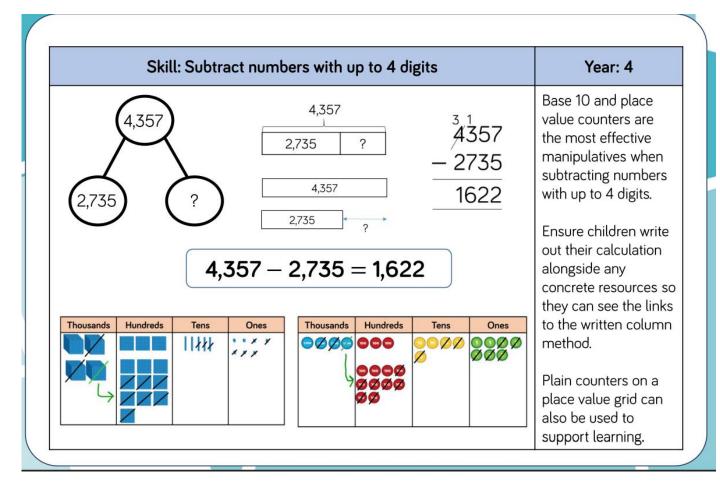
ADDITION:



SUBTRACTION:

Vocabulary:

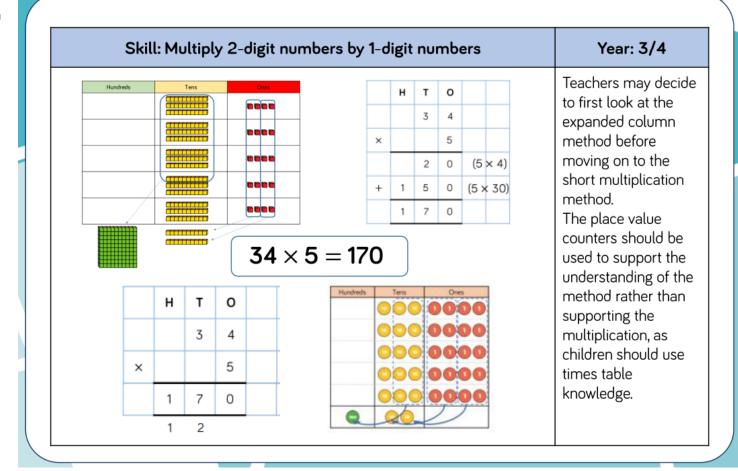
- Subtract
- Takeaway
- Minus
- Decrease
- Column subtraction
- Difference
- Fewer
- Less
- Left
- Leftover
- Exchange
- Inverse



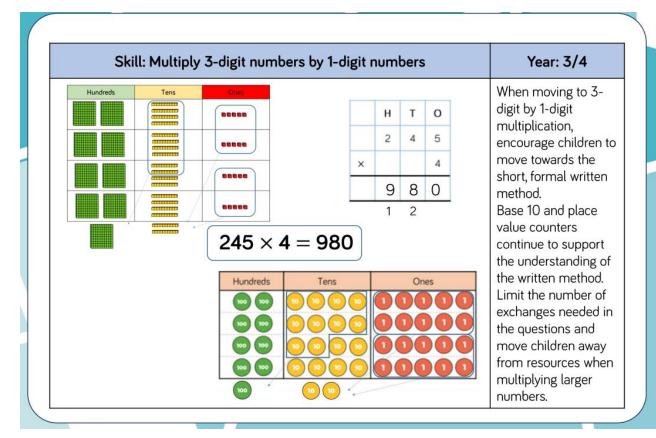
MULTIPLICATION:

Vocabulary:

- Multiply
- Groups of
- Multiplication
- Multiplied by
- Commutative
- Factors
- Multiples
- Grid method
- Inverse
- Ten times greater



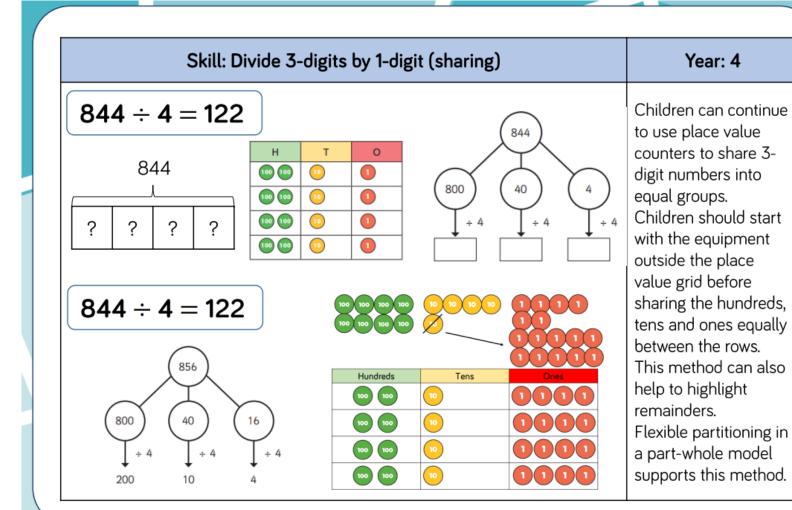
MULTIPLICATION:



DIVISION:

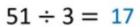
Vocabulary:

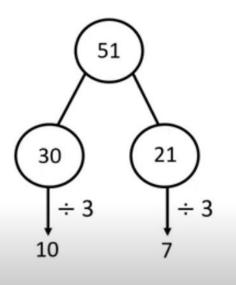
- Divide
- Division
- Divided by
- Share
- Groups of
- Exchange
- Partition
- Flexible partitioning
- Inverse
- Ten times smaller



DIVISION:

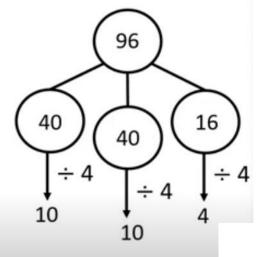
Using flexible partitioning to divide 2 digit and 3 digit numbers by 1 digit.



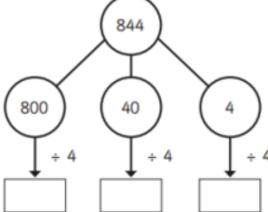


$$10 + 7 = 17$$

$$96 \div 4 =$$



$$10 + 10 + 4 = 24$$





SUPPORTING AT HOME:



TimesTables.me.uk

https://www.timestables.co.uk/multiplication-tables-check/











White Rose parent workbooks for Years 1 - 6 give children and parents an extra tool for enjoying maths together.

If you would like these to support any topics/units, please speak directly to your child's class teacher.



