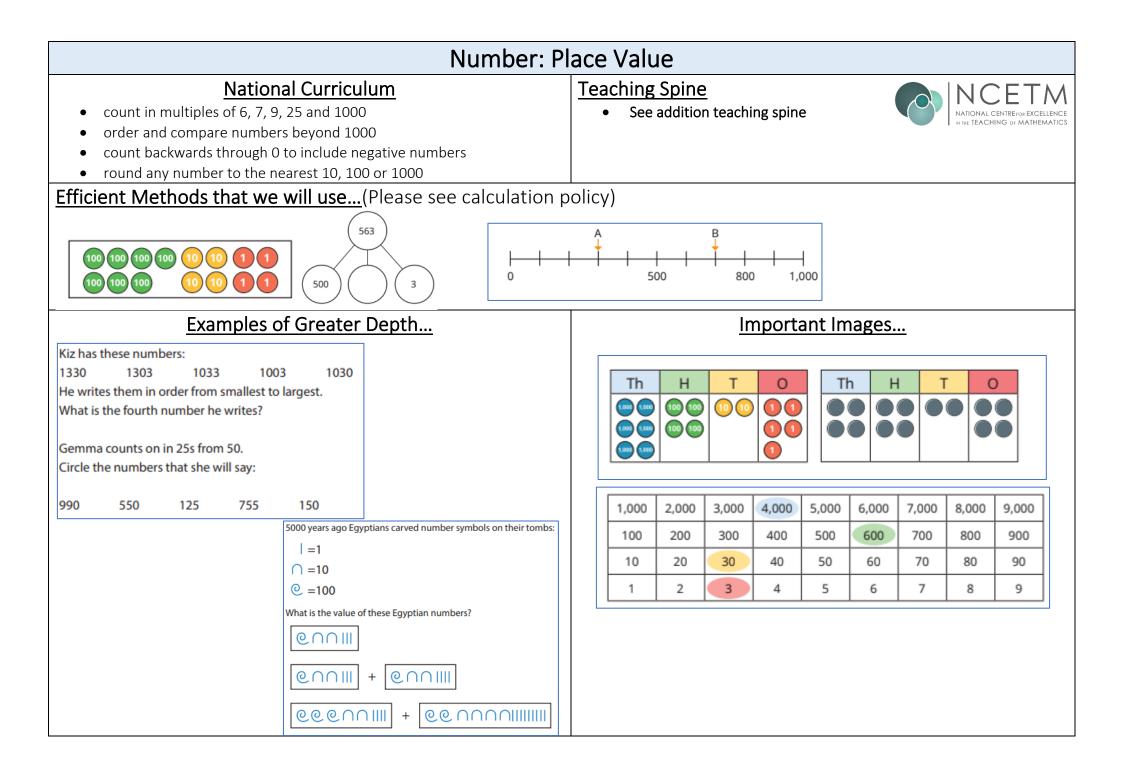
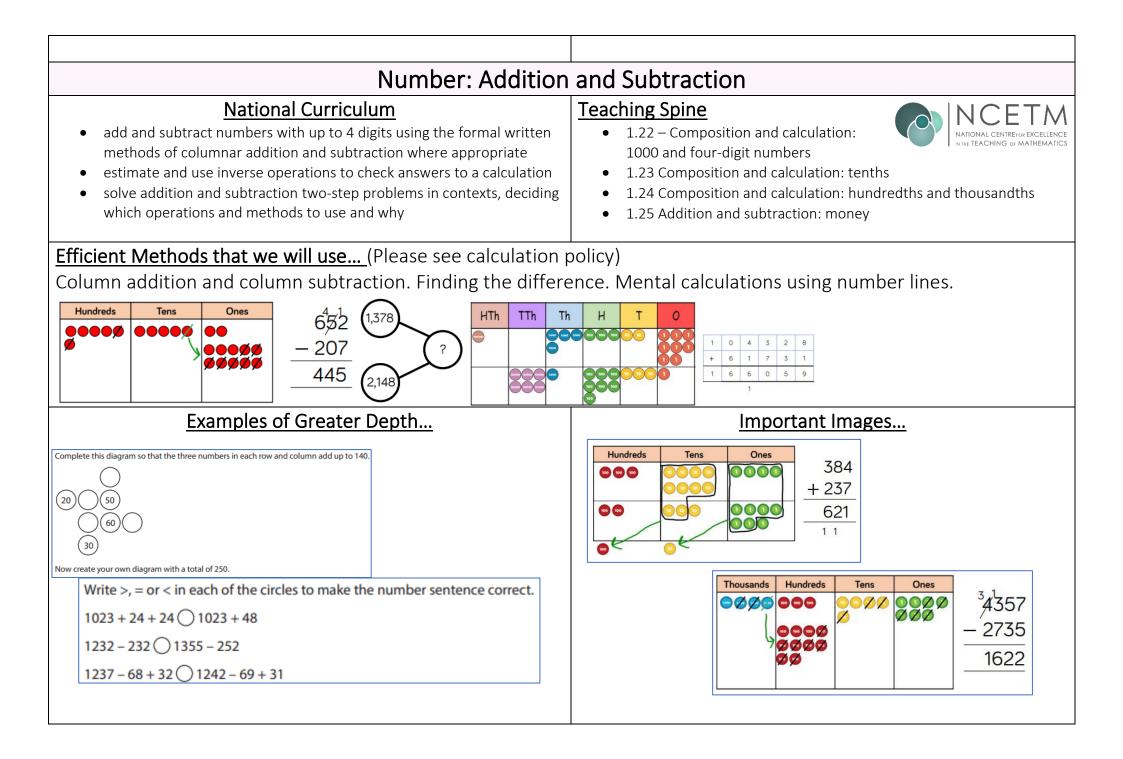
Maths Learning Organiser

Year 4



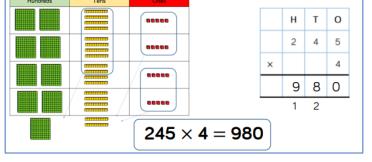
White	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Rose Maths	Number: Place Value	Measurement: Area	and division B	Number: Fractions	Number: Decimals B	Geometry: Shapes
'early	Number: Addition and Subtraction	Number: Multiplication and Division A	Measurement: Length	Number: Decimals A	Measurement: Money	Statistics
Progression:	Subtraction		and Perimeter		Measurement: Time	Geometry: Position and direction
Home Learning:	For	find out home to access the ome learning lessons follow to tps://whiterosemaths.com/i weekly home learning plea tps://whiterosemaths.com	the White Rose, Lesson resources/primary-reso se click the link below,	by Lesson Progression purces/primary-sols/ and then chose the co	n like in school. Please cli	ck below to see,
inks to Vider Curriculum	 Science: - linking with outside space to generate graphs and data, quadrat sampling. (Pictograms/ Ven diagrams/ Bar charts) Using thermometers for reading negative numbers for temperature Use of the outside space to find the perimeter and area of a section of land e.g., how would we calculate the amount of fencing needed to enclose our playground Geography – use of the David Weatherly Geography and History question stems. Art – using geometric shapes, tessellations, rotations, and reflections and repeating patterns. Music – calculating how many beats relate to a specific note e.g., quaver (half a beat), crochet (1beat) 					
Number Talk Key Skills			Prober	Summariser	number bonds.	inks between number facts





Number: Multiplica	ation and Division		
 National Curriculum recall multiplication and division facts for multiplication tables up to 12 × 12 I use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers I recognise and use factor pairs and commutativity in mental calculations I multiply two-digit and three-digit numbers by a one-digit number using formal written layout I solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects 	 Teaching Spine 2.10 Connecting multiplication and division, and the distributive law 2.11 Times tables: 11 and 12 2.12 Division with remainders 2.13 Calculation: multiplying and dividing by 10 or 100 2.14 Multiplication: partitioning leading to short multiplication 2.15 Division: portioning leading to short division 2.16 Multiplicative contexts: area and perimeter 1 2.17 Structures: using measures and comparison to Understand scaling. 		
I 2 3 4 5 6 7 8 9 10 1 12 13 14 15 16 17 19 20 1 12 13 14 15 16 17 19 20 21 22 23 24 25 26 20 28 29 30 31 32 33 34 55 59 37 38 39 40 41 42 43 44 66 47 48 49 50 51 52 53 64 65 66 67 68 69 70 71 70 73 74 75 76 77 78 78 80 60 82 83 84 85 86 87 78 89 90 90 93 94 95 96 97 98 90 100	Hundreds Tens Orec HH T O 2 4 5		

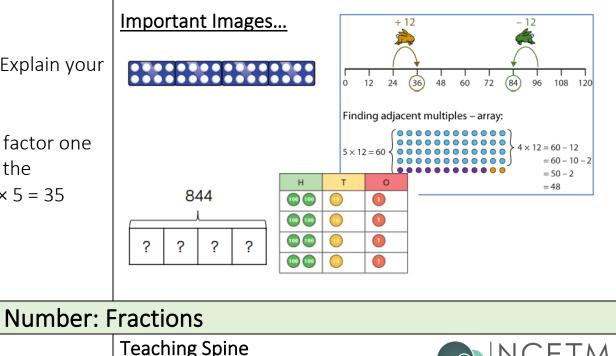




Examples of Greater Depth...

True or false? $7 \times 6 = 7 \times 3 \times 27 \times 6 = 7 \times 3 + 3$ Explain your reasoning

Multiply a number by itself and then make one factor one more and the other one less. What happens to the product? E.g. $4 \times 4 = 166 \times 6 = 365 \times 3 = 157 \times 5 = 35$ What do you notice? Will this always happen?



• recognise and show, using diagrams, families of common equivalent fractions

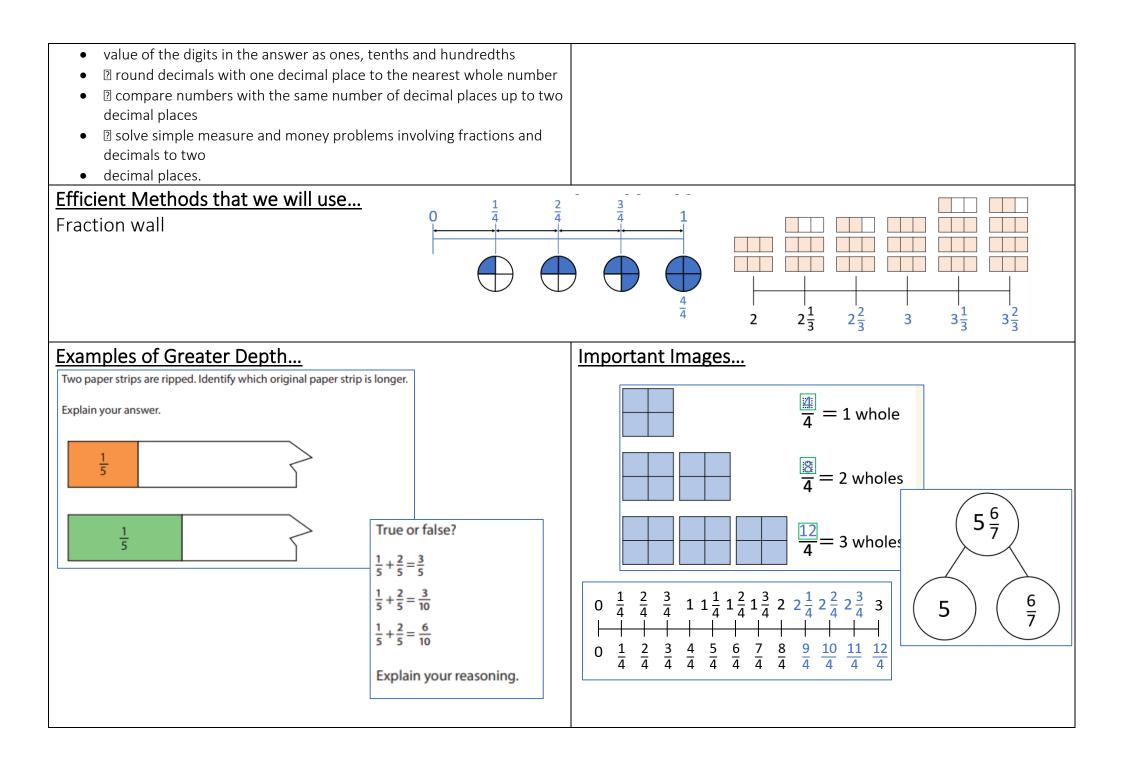
National Curriculum

- 🛛 count up and down in hundredths; recognise that hundredths arise when dividing an
- object by one hundred and dividing tenths by ten.
- I solve problems involving increasingly harder fractions to calculate quantities, and
- fractions to divide quantities, including non-unit fractions where the answer is a whole
- number
- 2 add and subtract fractions with the same denominator
- 2 recognise and write decimal equivalents of any number of tenths or hundredths
- Precognise and write decimal equivalents to ¼, ½, ¾
- If find the effect of dividing a one- or two-digit number by 10 and 100, identifying the

• 3.5 Working across one whole: improper fractions and mixed numbers

NCETM NATIONAL CENTRE FOR EXCELLENCE IN THE TEACHING OF MATHEMATICS

• 3.6 Multiplying whole numbers and fractions



Precision Maths:

- Counting in multiples of 2-12
- Times tables from 2 12
- Multiply and divided numbers by 10and 100
- Recognising the place value of each digit in a four digit number.
- Round numbers to the nearest 10, 100 and 1000.
- Number bonds to 10
- 10 more, 10 less, 100 more, 100 less.
- Read and write and convert time between analogue and digital 12- and 24-hour clocks
- Recognise and write decimal equivalents.
- Convert between units of measure e.g., Kg to M, hour to minute