Maths Learning Organiser						
Year 2						
Yearly	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Progressio n: White Røse Maths	Number: Place Value (within 100) Number: Addition and Subtraction (within 100)	Number: Addition and Subtraction (within 100) Geometry: Shape	Measurement: Money Multiplication & Division	Multiplication & Division Measurement: Length and Height Measurement: Mass, capacity and Temperature	Number: Fractions Measurement: Time SATS Practise	Statistics Geometry: Position & Direction Consolidate Yearly Learning
Home Learning		To find outHome learnbelow to seehttps://whitFor weekly bhttps://whit	It home to access the Home Learning section from, please watch our <u>YouTube</u> video link. In this provide the White Rose, Lesson by Lesson Progression like in school. Please click see, In this please click the link below, and then chose the correct unit of work for the term. hiterosemaths.com/homelearning/year-2/			
Links to wider curriculum:	 History- ordering dates on timelines- time intervals, days, months & years Geography – reading and interpreting data. Science- measuring and comparing, working scientifically. Computing Design and technology- Measuring, cooking, chopping into equal parts, shape and measure. 					
Number Talk Key Skills	Instigator I think because I know that I noticed Today, we are talking about	Contributor I agree/disagree with Hike your idea but	Prober Prober What do you think? I think differently because	Summariser Fact num Drav Pred Use reas Justi We found that We agreed that	s for free- making links betwe ber bonds. v on simple conclusions from lict what might come next. manipulatives and images to ons. fy using work examples.	en number facts and understanding of work. explain and give

Number: Addition and Subtraction

National Curriculum Objectives

Solve problems with addition and subtraction:

- Using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- Applying their increasing knowledge of mental and written methods •
- Recall and use addition and subtraction facts to 20 fluently, and derive and use . related facts up to 100
- Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones, a two-digit number and tens, two two-digit numbers, adding three one-digit numbers
- Show that addition of two numbers can be done in any order (commutative) • and subtraction of one number from another cannot
- Recognise and use the inverse relationship between addition and subtraction ٠ and use this to check calculations and solve missing number problems.

Teaching Spine



- Addition and subtraction: bridging 10
- Subtraction as difference
- Addition of... Two-digit and single-digit numbers Two-digit numbers and multiples of ten
- Two-digit and two-digit numbers • Subtraction: two-digit and two-digit numbers

12 –

12 - 2 = 1010 - 2 = 8

12 - 4 = 8

Efficient Methods that we will use... (Please see calculation policy)





 $30 + 40 + \square = 100$

40 + 1 + 20 = 100

36 + 44 + = 100

36 + 54 + = 100

47 + 1 + 20 = 100

47 + + 30 = 100

Examples of Greater Depth

'Fill in the missing squares, using the digits 0, 1, 2, 4, 5 and 6, so that each row and column adds up to the same number.'



I think of a number and I add 2. The answer is 17. What was my number?

I think of a number and I subtract 5. The answer is 24. What was my number?



600 700 100 200 300 400 500 800 900 20 10 30 40 50 60 70 80 90 2 6 3 4 5





7 + 3 = 10



Number: Multiplication & Division

National Curriculum Objectives

- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication
- Tables, including recognising odd and even numbers
- Calculate mathematical statements for multiplication and division within the multiplication
- Tables and write them using the multiplication (×), division (÷) and equals (=) signs
- Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
- Solve problems involving multiplication and division, using materials, arrays, repeated Addition, mental methods, and multiplication and division facts, including problems in contexts.

Efficient Methods that we will use... (Please see calculation policy)

Teaching Spine



- Structures: multiplication representing equal groups
- Times tables: groups of 2 and commutativity (part 1)
- Times tables: groups of 10 and of 5, and factors of 0 and 1
- Commutativity (part 2), doubling and halving
- Structures: quotative and partitive division

- Grouping
- Sharing
- **Repeated Addition**
- Arrays
- Number line

Examples of Greater Depth

Together Rosie and Jim have £12. Rosie has twice as much as Jim.

How much does Jim have?

The bar model can be helpful in solving these types of problems.



 $12 \div 3 = 4$ Jim has £4

Two friends want to buy some marbles and then share them out equally between them. They could buy a bag of 13 marbles, a bag of 14 marbles or a bag of 19 marbles.

What size bag should they buy so that they can share them equally?



Important Images...





