Year 2 Maths Workshop

25.1.24

Welcome and aim of the session

- Overview of the expected standards for Number within the mathematics curriculum.
- Teaching methods and strategies employed at school for all 4 operations.
- Practical 'have a go' activities'.
- How you can support your children at home.
- Opportunities to answer questions.

Fractions

Identify a quarter, third, half and two quarters and three quarters of a number or shape and know that all parts must be equal parts of the whole

Measures

Use different coins to make the same amounts Read the time on a clock to the nearest 15 minutes

Not forgetting the other areas that are taught and assessed to be expected for Year 2...

Properties of shape

Name some common 2D and 3D shapes from a group of shapes and describe some of their properties

Name and describe properties of 2D and 3D shapes, including number of sides, vertices, edges, faces and lines of symmetry



Concrete Apparatus

- Base 10
- Place Value Counters
- Tens Frames
- Hundred squares
- Number lines and number tracks
- Numicon
- Bead strings
- Rekenrek





26 27

-		-	





Place value

Expected Standards

- Recognise the place value and digits of tens and ones.
- Partition any 2 digit numbers into tens and ones in different ways.

Greater Depth

• Use reasoning about numbers and relationships to solve more complex problems and explain their thinking

Place Value Vocabulary

represer	nt ones	many	equal to
whole	hundred	few ds	the same as
part		fewer partition	odd
before	digit	fewest	even
after	greater than	least	ten more

Let's have a go!

- Fastest fingers first (on a number square)
- Use the apparatus to show me
- I am thinking of a number ...
- Can you partition 57 in different ways?
- Use the digit cards 5, 3, 1, to make the lowest and highest number.

10	10	0	10		1 1	1	1
	10	10	10	1	1	1	
10	10	10		10	1	1	1
	10		10	1	1	1	

Circle the correct number of tens and ones to make eighty-two.

Look at these digit cards.



(a) Use each card once to make the largest number.



(b) Use each card once to make the smallest even number.



Examples of place value questions

Look at these numbers.



Write each number once to make these correct.



Desi has these coins.





How much does he have altogether?



Addition and Subtraction

Expected Standards

- Add and subtract two digit numbers and tens, where no regrouping is required
- Add and subtract any 2 digit numbers using an efficient method
- Recall all number bonds to and within 10 and use these to reason with and calculate number bonds to and within 20.

Greater Depth

• Solve unfamiliar word problems that involve more than one step. (This includes all four operations).

Addition and Subtraction Vocabulary

subtract	make	double
take away half	sum	
minus	total	equals
difference between less/more is ?	altogether	How much
add How many more to make	inverse	

Partitioning Methods - see IWB display for modelling

- Using tens and ones (deines and counters)
- Drawing tens and ones
- Tens grids/part whole models
- Partitioning on a numberline
- Using number bond knowledge to the nearest 10

How could we use these methods to solve?

33 + 24 = 72 - 21 = What about 32 - 13 = ?



Mental Maths - fluency

- 1 more less/10 more less
- doubles/near doubles
- Numberbonds to 10 and 20
- Near 10s (eg 82 19 =)

Column Addition

- Two digits add ones
- Two digits add 10s
- Two digits add two digits
- Regroup





Tens	Ones
	:::

Find the sum of 35 and 26

- ₩ ₩ + || ==
- Partition both the numbers.
- Add together the ones. Have we got 10 ones?
- Exchange 10 ones for 1ten.
- How many ones do we have?
- Add together the tens. How many dowe have altogether?





Bar Models for Addition and Subtraction



Addition and Subtraction Word Problems



Let's have a go! Addition to 100 BINGO!



Multiplication and Division

Expected Standards

- Count in 2s, 5s and 10s to solve simple problems.
- Recall multiplication and division facts for 2s, 5s and 10s to solve simple problems.
- Read scales in divisions of 1s, 2s, 5s and 10s.

Greater Depth

- Recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts.
- Solve unfamiliar word problems that involve more than one step. (This includes all four operations).

Rote Counting, Singing or Chanting

- Songs
- Games
- Skip counting
- Spotting patterns on a number square



My 1-100 Hundred Square									
1	2	3	4	5	6	7	8	۹	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100







https://www.youtube.com/watch?v=dzVyBQ5uTbo



https://www.topmarks.co.uk/maths-games/7-11-years/multiplication-anddivision

Visual representations - Counting money (10p, 5p, 2p, ± 5)



Visual representations - Repeated Addition (Numicon)



Pictures and Arrays



Bar Models/Sharing Hoops







Grouping

8a. Mrs Gul buys 25 apples. Each group needs 5 apples.



4a. Mr Lund buys 20 plums. Each group needs 5 plums.



9a. Draw twenty-four squares and sort them into equal groups of six.

Part Whole Models for Multiplication and Division



 Use the part-whole model to solve the division calculation.



Word problems

Teddy has 20 pence in 2p coins. He uses 7 of the coins to buy a drink. How many 2p coins does he have left?



Numbots Game

What can you do at home?

- Numbots Online maths app
- White rose maths 1 minute maths app
- Time nearest 15 minutes
- Money different ways to make the same amount
- Online games BBC bitesize, topmarks, maths frames.
- Practise mixed calculations
- Board games orchard games, monopoly,
- Make maths fun! small bursts

And finally...

We're often asked what's the one thing that will help to support my child in maths at school. So here it is....

Be positive. We can ALL do maths!

TOP TIP!

Y2 EXP Tell the time to the nearest 15 minutes on an analogue clock

Y2 GD Tell the time to the nearest 5 minutes on an analogue clock

There is plenty of useful information on our school website. Just go to...



Key information --> Curriculum --> Maths