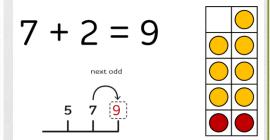
Number Facts

Key Stage One Parent Workshop
Goldsworth Primary School
Wednesday 25.01.23 & Thursday 26.01.23







Aims

- To share how we teach maths in school
- Explain which number facts need to be learnt
- Share games and strategies to help your child derive, learn and recall number facts

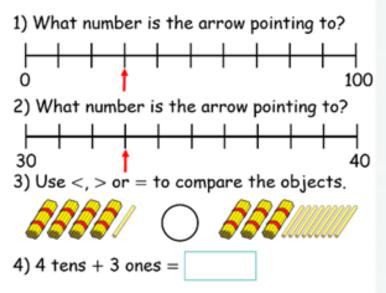
Attitude to maths



How do we teach Mathematics in Key stage 1

- Fluency
- Review
- Vocabulary
- Discover/learning chunk 1
- Independent task (practise)

Fluency



Every maths lesson starts with a fluency task.

It builds mental recall and is often a review of what has gone before.

It can be a prerehearsal ready for that lesson.





Review

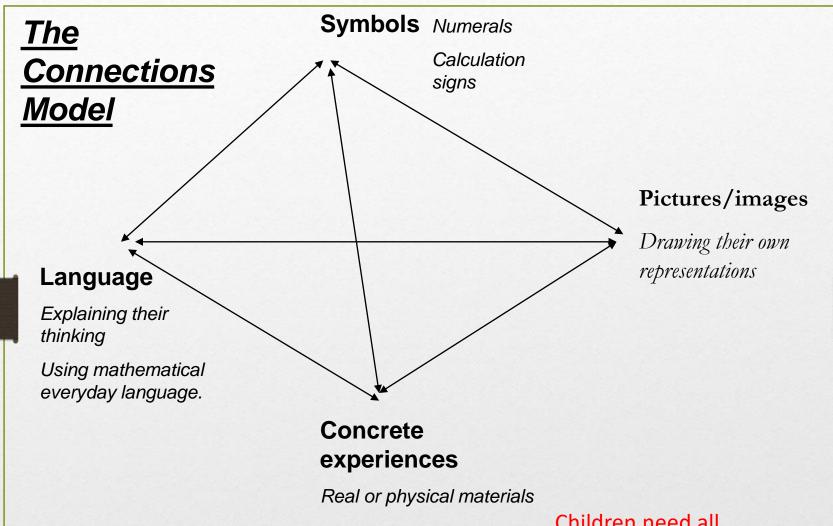
Review

Are the number sentences true or false? Circle your answer.

a)
$$17 + 1 = 1 + 17$$
 true false

b)
$$17 - 1 = 1 - 17$$
 true false

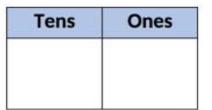
review of prior learning. This could be consolidating the use of a method/strategy or it could be an opportunity to address a misconception.

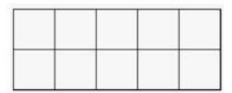


Children need all
4 experiences
in order to build connections

Concrete, Pictorial, Abstract **Surrey Plus**

Concrete resources



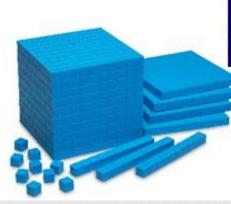






1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009







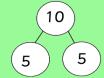
Vocabulary

minus subtract takeaway less

Key Models

number sentence

part-whole model



Place Value Chart

Tens	Ones
H	

1 2

column



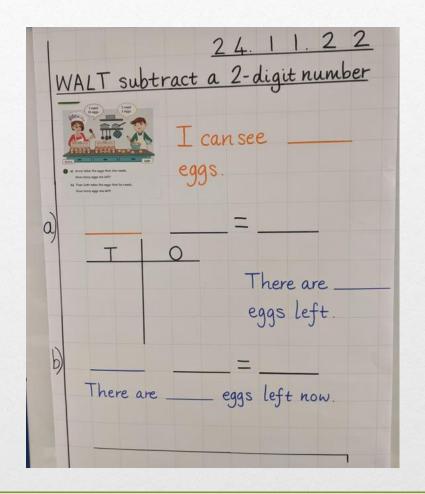
Discover



- a) Anna takes the eggs that she needs. How many eggs are left?
- b) Then Seth takes the eggs that he needs. How many eggs are left?

This part of the lesson gives children the opportunity to explore the new mathematical concept being taught. The teacher will guide and facilitate the children's learning, encouraging the use of resources, and will be gauging children's current understanding.

Guided Practice



Maths task board:		
Draw a margin	<u>/</u>	
	24.11.22	
Stick in the problem.	WALT: add 2 digit numbers. I need 1 need 2 eggs. Arrig Soth	
Anna takes 10 eggs.	Tens Ones	
How many eggs are left?	10 = Show the number of eggs on your place value chart. Cross out Anna's amount.	
Seth takes 2 eggs 2 =		
How many eggs are now left?	Cross out Seth's amount.	
	There are eggs left.	
Draw this on a number line.	-10	

Independent Practice



a) Anna takes 10 eggs. How many are left?

____ - 10 = ____ There are ____ eggs left.

Tens	Ones

a) Work out

b) Seth takes 3 eggs. How many are left?

____ - 3 = ____

There are	eggs	left.

Tens	Ones

44 - 13

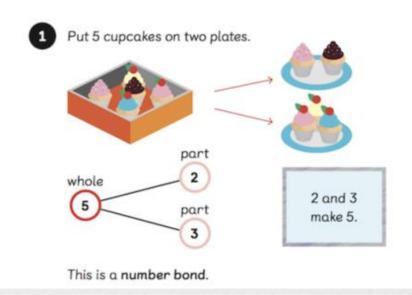
b) What is the same?
What is different?

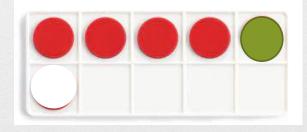
The children have the opportunity to solve a similar problem linked to the previous task.

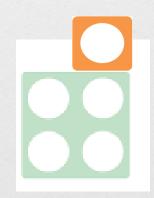
Number bonds

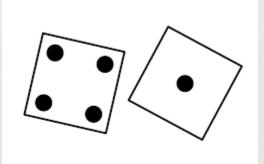
Number bonds show how numbers are split or combined











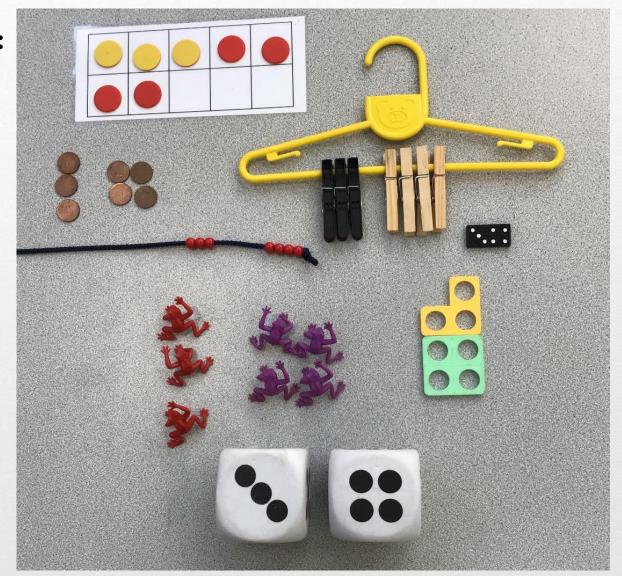
Progression of Number Facts

Reception	Automatically recall (without reference to rhymes, counting or	
	other aids) number bonds up to 5 (including subtraction facts) and	
	some number bonds to 10, including double facts.	
Year 1	Represent and use number bonds within 20	
	Represent and use subtraction facts within 20	
Year 2	Recall and use addition and subtraction facts to 20 fluently and	
	derive and use related facts up to 100.	
	Recall doubles and halves to 20	
	Recall and use multiplication and division facts for the 2, 5 and 10	
	times tables	
Year 3	Recall and use multiplication and division facts for the 3, 4 and 8	
	times tables	

What helps children to memorise facts?

- Written
- Visual
- Kinaesthetic
- Pattern
- Aural

3 + 4 =



Looking for patterns..

0+7=7

1+6=7

2+5=7

3+4=7

4+3=7

5+2=7

6+1=7

7+0=7

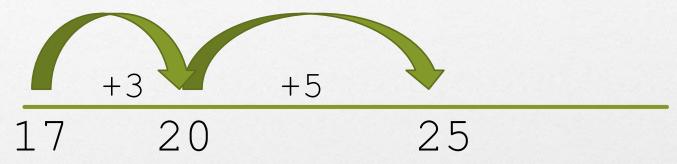
What do you

notice?

What's the same?

What's different?

Bridging up or down to 10





Fact Family

$$7 - 3 = 4$$

$$7 - 4 = 3$$

Equivalent

facts

$$6+1=7$$

3+4=7

Nearby facts

Place value

$$0.4+0.3=0.7$$

Games to play

- Throw and catch
- Bingo
- Pairs
- How many in 1 minute?
- Shut the box
- Number bond Snap



Other tips...

- Positive attitude
- Little and often
- Make it fun- do maths!
- Use what you know
- Play counting games and board games
- Sing number songs
- Enjoy number stories
- Cooking
- Spot numbers and patterns in the environment.

Aims

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- Explain which number facts need to be learnt.
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Thank you for coming. Please complete the evaluation.