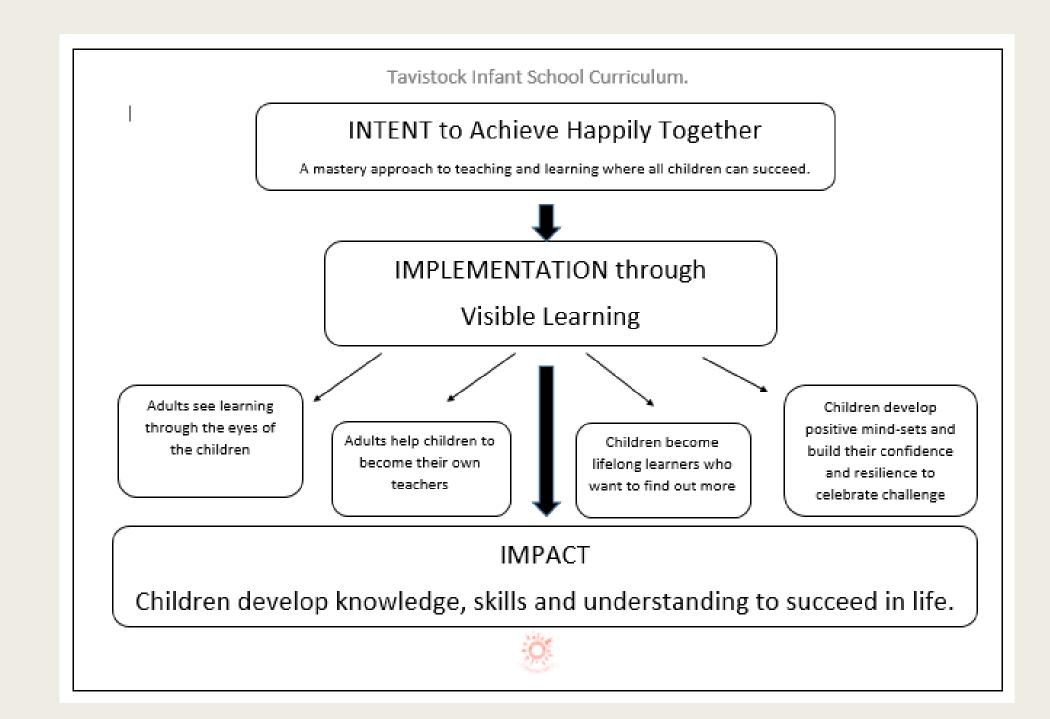
# MATHEMATICS INFORMATION EVENING 2024

### Achieving Happily Together





#### The National Curriculum

#### Core subjects

■ English, maths and science

#### Foundation subjects

 History, geography, music, PE, D&T, Art, RE, computing and PSHE

#### The National Curriculum & Maths

- Mental fluency
- Reasoning
- Problem solving

#### Aims

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and nonroutine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

#### Maths Overview for Year 1

	Tavistock Maths Planning Overview for Year 1				
	Adapted from Hampshire Maths Team documents				
Autumn 1	Spring 1 Summer 1				
Number and Place Value	Number and Place Value	Number and Place Value			
Continue and extend counting skills – counting in ones,	Continue and extend counting skills – counting in ones,	Continue and extend counting skills – counting in			
forwards and backwards to at least 30, then 50.	forwards and backwards to 100. Count in 10's forwards	ones,2's,5's and 10's forwards and backwards to 100 and			
	and backwards. Count in 2's forwards and backwards.	beyond (to or from any given number). Understand			
Count, read and write numbers to 20 in numerals, then		vocabulary of comparing, ordering and positioning			
extending to 30 / 50. Begin to write some numbers to 20 in words.	Writing numbers in words to 20.	numbers.			
	Count, read and write numbers to 50 in numerals, then	Count, read and write numbers to 100 in numerals.			
Understand what each digit represents in numbers to 20,	extending to 100.				
and represent these numbers with structured resources.		Understand what each digit represents in two –digit			
Partition a teens number.	Understand what each digit represents in two –digit	numbers and represent these numbers with structured			
Perio to recognize the significance of "teat" in the number	numbers to 50 and represent these numbers with	resources in a variety of ways.			
Begin to recognize the significance of "ten" in the number system.	structured resources.	Represent and order numbers to 100, knowing "one			
system.	Recognize the significance of "ten" in the number system.	more" and "one less" than any number to 100.			
Begin to recognize multiples of ten and count in tens	recognize the agrincance of ten in the number system.	more and one read than any number to 200.			
forwards and backwards.	Count in multiples of 5.	Compare numbers and quantities, using the language of			
		equal to, more than, less than (fewer), most, least			
Count in 2's forwards and backwards	Represent and order numbers to 50, knowing "one more"				
	and "one less" than any number to 50. Begin to extend	Read and write numbers to 20 in words.			
Represent and order numbers to 20, knowing "one more"	this to 100.				
and "one less" than any number to 10/20.		Halving and doubling numbers to 20.			
But to dead double a comband of but to a comband	Know the number that is ten more / ten less than any two	M			
Begin to start doubling numbers and halving numbers.	digit number and explain which digit changes and why.	Know the number that is ten more / ten less than any two digit number and explain which digit changes and why.			
Estimate objects to 20.	Recall and know securely number facts for 10 and	digit number and explain which digit changes and why.			
Estimate objects to 20.	numbers within 10.	Addition and Subtraction			
Addition and Subtraction	Training of the state of the st	Contextual addition and subtraction problems within 30,			
Understand addition as combining 2 groups and more	Begin doubling and halving numbers to 20.	using "+", "-" and "=" symbols.			
and start to use symbols + and =.					
	Estimate objects to 50.	Know all pairs of numbers for 20. Begin to work			
Partition numbers to 10. Eg: 3+3, 2+4, 5+1		systematically to work out corresponding subtraction			
	Addition and Subtraction	fact.			
Begin to work out number facts for 10 and numbers	Mentally subtract and add 1 from any number to 10 and	Here a sumber the decrease and different and authorities			
within 10.	write the operation.	Use a number line to support addition and subtraction –			
Adding 2 or 3 sets of numbers together using apparatus.	Add/subtract any pair of single digit numbers mentally.	counting on for addition and counting back for subtraction.			
Adding 2 or 3 sets of numbers together using apparatus.	Auto/subtract any pair of single digit numbers mentally.	Subtraction.			

#### Maths Overview for Year 2

	Tavistock Maths Planning Overview for Year 2			
	Adapted from Hampshire Maths Team documents			
Autumn 1	Spring 1	Summer 1		
Number and Place Value	Number and place value	Number and Place Value		
Continue to practice and extend counting skills – practice counting forwards and backwards in one's, count forwards and backwards in steps of 2 and 5 using a class number line for support.	Read and write numbers to at least 100 with digits consistently placed correctly.  Use and apply confidently known and quickly recalled	Practise counting in 2's,3's, 5's and 10's forwards and backwards. Use place value and quickly recalled number facts to 20 to solve problems and apply to investigations.		
Write numbers to at least 100 in numerals and words.  Partition numbers into tens and units in different ways.	number facts and knowledge of place value to problem solving and investigations  Odd and even numbers within 100.	Identify, represent and estimate numbers using different representations, including the number line		
Knowing significance of tens number. Continue to consolidate known number facts.	Count in multiples of 3.	Confidently compare and order numbers to 100, using <, > = symbols correctly.		
Recognise and use number facts to 20 and halving and doubling facts in simple problems and explain working out.	Continue to use and apply knowledge of writing numbers in numerals and words (to at least 100)  Routinely practise and check estimation skills	Read and write numbers to 100 in numerals and words  Addition and subtraction  Solve a range of addition and subtraction problems		
Add/subtract 1 or 10 to any 2-digit number and explain which digit changes and why. Explain using the 100 square.	Use place value to compare and order numbers to 100, using <, > and = symbols. Know zero as a place holder.	confidently, choosing a suitable strategy based on the numbers involved (mental methods, number line jottings)		
Consolidate secure understanding of "=" as equivalence. Begin to apply knowledge of place value and number facts to solving problems	Recall and use addition and subtraction number facts to 20.	Confidently apply known and quickly recalled facts to addition and subtraction calculations.		
Addition and Subtraction Add 2 or 3 sets of numbers together and begin to use an	Use number facts to 10 and begin to use to 20 to add and subtract multiples within 100.	Add and subtract numbers using concrete objects, pictorial representations and mental methods, including a two-digit number and ones, a two-digit number and		
unstructured numberline.  Solve problems with addition and subtraction	Addition and subtraction Use mental and written methods to add/subtract a 2-digit number and a multiple of 10 and 2 2 digit numbers.	tens, two two-digit numbers and adding three one-digit numbers.		
Use practical resources (counting apparatus/Diennes) to model addition/subtraction with 2-digit numbers.	Demonstrate knowledge of which way subtraction and addition can/cannot be done.	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.		
Add and subtract 2-digit numbers using an unstructured numberline to support thinking. Use a number line to support mental strategies for addition – jumping in steps of ten and one.	Practise addition and subtraction skills in a range of contexts, problems and investigations.	Recognise and use the inverse to check the reasonableness of an answer and to solve missing number problems.		

#### What does maths look like in KS1?

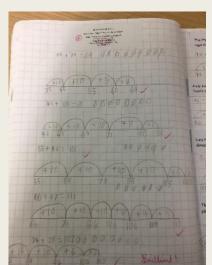
- Mental and oral- lots of counting and basic skills.
- Reasoning questions- discussions with partners and explanations.
- We introduce the learning and model strategies for working out and recording.
- Children use practical resources and become problem solvers.
- We share learning strategies and discuss the outcomes.

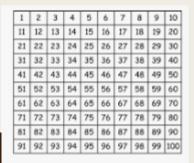
#### Place Value in KS1



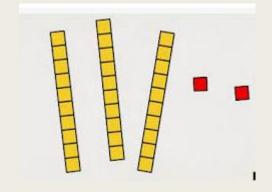








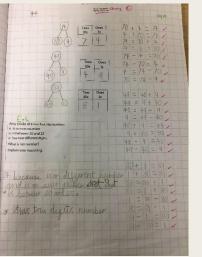






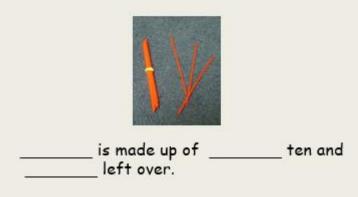


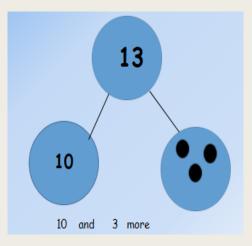


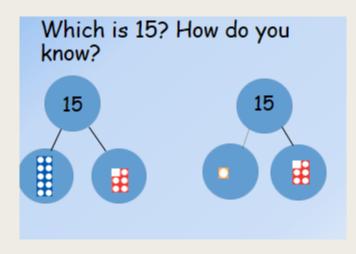


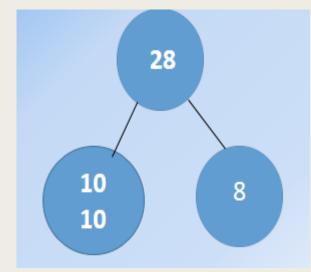
#### Place Value in Year 1

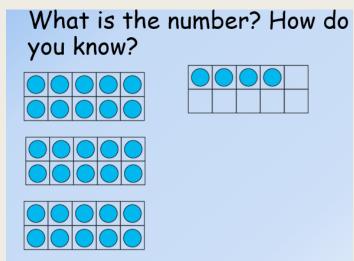
What is the number?

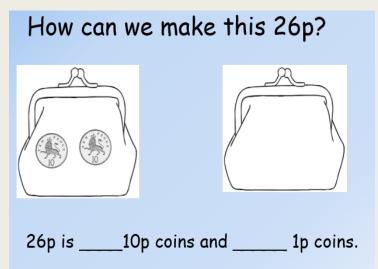




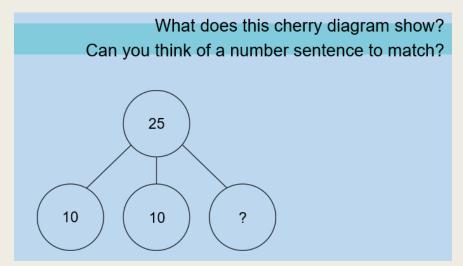


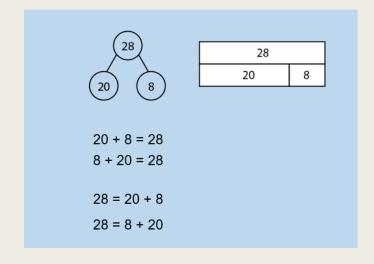


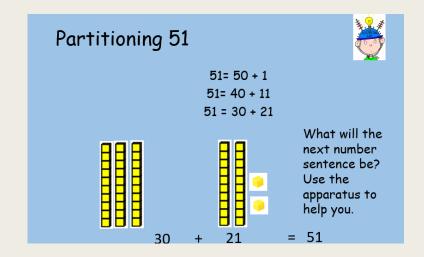


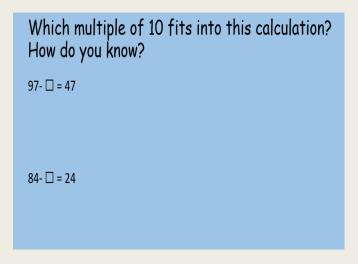


#### Place Value in Year 2









#### How would you solve a problem like this?

Mrs Hope baked 57 sausages for Year 1 and 25 for Year 2, how many sausages did she bake altogether?

What is the key information?



#### Tens number

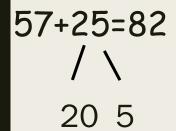
**57+25**= / \ 20 5



I	2	3	4	5	6	7	8	9	10
П	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

+ 3 to get to the next 10.

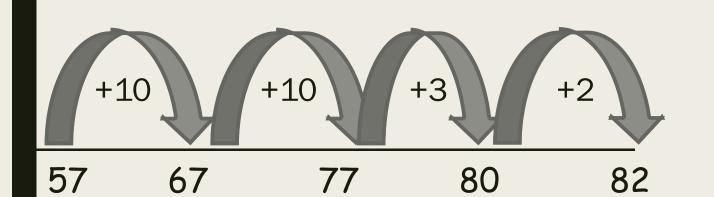
#### Tens number





Then you have 2 units left to add.

	101110000								
ı	2	3	4	5	6	7	8	9	10
Ш	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



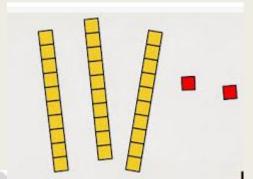
## How to help with Numbers, Counting and Place Value.

- Count objects at every opportunity- don't just recite them.
- Play board games
- Make amounts using 1p and 10p coins to help place value.
- Practise recall of number bonds to 10 and then 20.
- Describe numbers eg- 10 is made of 10 and 2, it has 1 ten and 2 units/ones.
- Count in 10s from any given number, not just zero as this will aid addition and subtraction on the unstructured number line.





#### ■ Please look at the resources







	-	3	-	-	0	-	0	-	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

