Spring 2 Year 2 Links to prior learning/ objectives: **Resources:** Vocabulary: Lead • Empower • Achieve • Dr ~ read and recognise and write numbers to 20 Base10, number lines, counting objects/ forming them into arrays, bead strings, tens Pictogram, tally chart, block diagram, table, and know numbers to 100. frames, two-sided counters, Part-Part-Whole ~ Counting in multiples of 2, 5 and 10. scale, interpret, construct, intervals, ~ Multiplication facts with 2s, 5s ad 10s. diagrams/bar models. Axis, scales, multiples. ~ Recognising odd and even numbers. sort, quantity, total, how many more, Mastery: ~Addition and subtraction skills- base ten, tens (where to find some resources) difference. frames, number lines, physical objects. **Teaching for Mastery** Add, addition, commutative, commutativity, • ~ Word problems linked to addition and ٠ White Rose New and old documents order, part, whole. Add, subtract, addition, subtraction, inverse, subtraction. Mastery maths stickers • ~ Awareness of greater than, less than and equal Nrich (curriculum mapping) part, whole, missing number, ٠ to symbols. ~ Awareness of commutativity. **Objectives and Teaching** Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Week 1 **Barriers to ARE (misconceptions)** To know how to record and interpret data in a tally chart. Children may struggle to read a graph and To develop the skill of collecting data. determine what it is showing. To know how to create a pictogram using knowledge of data collection. Children may struggle to count in multiples of To develop the skill of interpreting data in a pictogram. ٠ 2s,5s and 10s to read the scale. Children may not be able to recognise what an amount may be if it falls between two numbered intervals- odd numbers on a scale of 2s. Recognising the worth of a picture on a pictogram- especially when more than one. Children may struggle to draw their own scale, recognising that intervals must be equally parted. **Problem Solving** Fluency Reasoning



e • Drive

Spring	2	Year	2
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Complete the tally chart. Favourite colour Tally Total Blue -HH* III III Red -HH* HH* II III Yellow II III Green III III

What does the data tell you? Tell me the story.

Complete the tally chart for Year 2

Year group	Tally	Total
Year 1	++++ ++++	10
Year 2		19
Year 3	1111 1111 1111 1111 1	21
Year 4	1111 1111 1111 11	17

What could the title be for this tally chart?

Make a tally chart about one of the following topics:

- Equipment in class (scissors, glue etc)
- Favourite sport
- · Favourite fruit
- Ways of getting to school (walk, car, cycle etc)
- A choice of your own

Complete the pictogram.



Use the tally chart to help you complete the pictogram.

Hun	Tailty		Fruit		Numbe	er		
Benena	IN.		Banana	LL				
Grapes			Grapes	00				1
			Pear	× ×	ŏ			1
Pear	- AT I	11	Apple					1
Apple	10							
ictogram				scored				
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What is the same? What is different?

Favourite ice-cream flavours in class 1	Tally	
Vanilla	1111 1111 1111	
Chocolate	title title title title	
Strawberry	4Ht 11	
Mint	1	

Favourite ice-cream flavours in class 1	Tally	
Vanilla	111111111	
Chocolate	4945 4945 4945 4945	
Strawberry	-1111	
Mint	111	

Frankie makes a tally chart of the animals he saw at the zoo



Tick one box below that shows all of the animals Frankie saw and explain why the others are incorrect.

illes 1	Ben 2	Box 3	Box 4
6000	2994	6666	0000
000	0000	25	0000
H H	Second and an	52, 52	14.14
888		22	8.8.8
888	999	444	888
स स स	बबब	बबब	भा भा भा

Here is a pictogram showing the number of counters each child has.



How could you improve the pictogram?

	Spring 2 Year 2
Week 2 Barriers to ARE (misconceptions) Children may struggle to read a graph and determine what it is showing. Children may struggle to count in multiples of 2s,5s and 10s to read the scale. Children may not be able to recognise what an amount may be if it falls between two numbered intervals- odd numbers on a scale of 2s. Recognising the worth of a picture on a pictogram- especially when more than one. Children may struggle to draw their own scale, recognising that intervals must be equally parted.	 Interpret and construct simple pictograms, tally charts, block diagrams and simple tables inversion of Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity To develop the skill of interpreting data. To develop the skill of creating pictograms.







Children may struggle to count in multiples of 2s,5s and 10s to read the scale. Children may not be able to recognise what an amount may be if it falls between two numbered intervals- odd numbers on a scale of 2s. Recognising the worth of a picture on a pictogram- especially when more than one. Children may struggle to draw their own scale, recognising that intervals must be equally parted.

Fluency

Colour	Number of children
Red	5
Green	8
Blue	7
Yellow	2

Make a block diagram using cubes to represent the data. Can you now draw the block diagram? Remember to label the blocks and draw a clear scale.

5 classes collected their house points. Here are their results. Which class collected the most house points? Which class collected the fewest house points? How many more points did Class 2 get than Class 4? How many fewer points did Class 3 get than Class 5? How many points did Class 2 and Class 3 get altogether?



Reasoning

Which one is the odd one out? Explain why.



Tally Chart

Transport	Number
Car	++++ ++++ ++++
Bike	1111 1111
Lorry	11
Motorbike	1111
Bus	1111-1111

Problem Solving

Split into groups.

Everyone needs to write their name on a post it note.

Using a blank axis of a block diagram, use your post it notes to find the answers to the following questions:

- How many boys and how many girls are there in your group?
- Which month has the most birthdays for your group?
- How old are the children in your group?





	Spring 2 Year 2	
		Here is an incomplete bar model. Drive The total is greater than 10 but less than 20. What could the numbers be? How many different combinations can you find?
Week 5 Barriers to ARE (misconceptions) Children may struggle to recognise the relationship between parts and whole when adding and subtracting. Children may struggle to see how the inverse can be used to check accuracy with an answer. Fluency	Recognise and use the inverse relationship betw check calculations and solve missing number pr • To know that subtraction is inverse to ac • To know how to use the inverse operation • To know how to use the inverse operation • To know how to use the inverse operation	veen addition and subtraction and use this to oblems. ddition. on to check calculations on to solve missing number problems. Problem Solving

Using concrete apparatus, can you talk about the relationships between the different flowers?	Spring 2 Year 2Theo is checking Ellen's work but doesn't do an inverse calculation.He says, "these calculations can't be right."How might he know? $24 + 6 = 84$ $25 - 23 = 12$ 	Emily did the following calculation: 12 - 8 = 4 She checked it by using the inverse. She did $12 + 8 = 20$ and said that her first calculation was wrong. What advice would you give to her?
Week 6	Consolidate – SATs consolidation using AfL	