Year 5 Maths Summer Week 1								
5 days of problem solving	Day 1 Activity	Day 2 Activity	Day 3 Activity	Day 4 Activity	Day 5 Activity			
Factual fluency (to aid fluency)	https://www.topmarks.co.u k/maths-games/hit-the- button Number Bonds - Missing Numbers (+ and -)	https://www.topmarks.co.u k/maths-games/hit-the- button_Number bonds - Addition within 100	https://www.topmarks.co.u k/maths-games/hit-the- button Number bonds - Subtraction within 100	https://www.topmarks.co.u k/number-facts/number- fact-families_Up to 50	https://www.topmarks.co.u k/number-facts/number- fact-families_Up to 100			
Problem/activity of the day	What could this graph be representing? (enlarged below) What questions could we ask / answer about this graph?	Here is some data. (Scroll down for enlarged data) What do you think it is about?	 Gather some data on a topic of your choice. Show the data in a table or a tally chart. Present your data in a suitable graph to show what you have found. Present your findings to someone at home. Finished? Could you use a line graph to show your results? Why or why not? 	Create and answer a series of questions about your data that you collected yesterday. 3 questions you find easy to answer 3 questions you find difficult to answer 3 questions you cannot answer	Complete all the tasks in the 'class 5 problem', to work out which child was away (problem below): - Read the data. - Make a tally chart using the first names in the class. - Make a frequency table using first names. - Work out which child was away when they made the graph.			
Resources you will need	Paper, pencil and ruler	Paper, pencil and ruler	Paper, pencil and ruler	Paper and pencil	Paper, pencil and ruler			
Tips, clues or methods to help	Examples of questions that might be asked about the graph	You could try: - a pictograph - a pie chart - a line graph (see examples below)	Examples of data you <u>could</u> gather: - genres of books in your house - colour socks you have	Read the questions from day one as a starting point.	Keep an eye on how many children there are with the same initial in their first names.			
Checking	None	None	None	None	None			
Theme	Graphs	Graphs	Graphs	Graphs	Graphs			

<u>See below:</u> enlarged problems, question prompts, the 'class 5 problem', graph support <u>Additional online activities:</u> <u>https://www.mathsisfun.com/data/data-graph.php</u> <u>https://nrich.maths.org/2399?utm_source=primary-map</u>



Day 1 enlarged:



Examples of questions you might ask about the graph on day 1:

(if each unit represents one t-shirt)

How many blue t-shirts were sold?

What is the total number of t-shirts sold?

How many more yellow t-shirts are needed to make more than green and red combined?

If one unit represents 45 t-shirts, how many blue and red t-shirts were sold?

<u>Vocabulary:</u> the most, the least, highest, lowest, popular, amount, percentage, how many, more than, less than, difference, total, altogether

Day 2 enlarged:

Ŕ		0to	•	others
20	12	15	3	7

<u>Vocabulary:</u> axis (x or y), transport, vehicles, scale (same distance between marks), travel, the most, the least, highest, lowest, popular, amount, how many, more than, less than, difference, total, altogether, data (collected information)



Graphs types support:



Day 3 Support – This is an example of tally chart

Title: Items of clothing in my wardrobe

Category	Tally	Total	
Trousers	III	3	



Bar charts/graphs use bars to show data. You use a bar chart to compare the values of several numbers at once.

Day 4 Support

Vocabulary you might want to use for your questions:

the most, the least, popular, how many, altogether, total, more than, less than, difference, same as, equal, amount, higher than, lower than, the highest, the lowest

Day 5 – The 'class 5' problem:

One day when <u>**34 children were in class**</u>, their teacher, said they were going to make some graphs and tables using their first names. She put the class lists onto the white board.

Here are the lists of <u>first names</u> of the members of Class 5. (They are in alphabetical order of their <u>surnames</u> so they do not seem to be ordered.)

First, the class made **tally charts** of the initial letters of their names. They worked in pairs. The first part of Becky and Selma's tally looked like this:

Girls in Class 5 Boys in Class 5 David Hetty Nelson Annie Tessa Ali Debbie Jake. Willow Harry P William Jess. Abby Ben Sindy Tom. Dai Penny Bel Arlo Andrew Sara Pippa Harry W Selma. Tim. Becky Joe Mel Alan Pauline James. Jeff Netty Mohammed

Make a full tally chart using the class first names.





Day 5 – the 'class 5' problem (continued):



Next, they all made frequency tables using this information.

This is the first part of Alan and Joe's table:

Frequency table

A - 6

- J 5
- B 3 H - 3
- D 3

Make a frequency table using all the class's names.

Next, they decided which letters of the alphabet were needed and which were not needed to make a block graph of their class names. Then <u>the boys took yellow</u> <u>squares</u> and <u>the girls took blue squares</u>, drew a picture of themselves and put the initial of their first name on the square and stuck it onto paper to make a pictogram graph.

The last part of the class's block graph looked like this:

Who was away from school that day from this information?

