

Planning Overview Year 3 Statistics

Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions [for example, 'how many more?' and 'how many fewer?'] using information presented in scaled bar charts and pictograms and tables

Objective	Teaching and Learning				
Create a	Ask the children a question where there can be endless multiple				
tally chart	answers – favourite food, favourite colour, favourite animal, etc. Ask				
and	the children to try to record multiple responses to the question. Ask				
that	them how easy it was without a system.				
grouping in	Talk about how a tally chart and frequecy table works (recap from				
5s helps	year 2). How would this help them to collect data in a more efficent				
with the	way?				
accuracy					
and speed	Children to collect data from their peers using a tally chart and a				
of counting	frequecy table.				
the totals					
	Children to answer questions about the data that they have collected				
	(how manyhow many morethe difference between)				
Transfer	Collect data from the class on a given topic. Recap how to fill the				
data from	tally/frequency table in. Share this frequency table with the class. Ask				
a tally	the children questions around the data.				
chart to a					
table and	Use the children to create a human pictogram.				
then a	Ask all of the children who voted for the first option to line up, then the				
pictogram	second, etc				
	Each child stands for one child, each child is representing their own				
	vote.				
	Now down what the shill are supplied at the size of the set of the				
	Now draw what the children created physically on the board. How				
	many votes is each child worth?				
	Ask shildren to nistagram the data that they collected the lessen				
	hotore using an image of a shild to represent each vote				
Interpret	Show the children 5 different packets of biscuits. Ask the children to				
data from	choose their favourite biscuit				
a					
nictogram	Children to physically go and get their favourite biscuit but have pre -				
when one	cut each biscuit in half. Each child gets a piece of the biscuit that				
symbol	represents their favourite. If we were to find the total of children who				
represents	liked each type of biscuit we could put the biscuits together agaim				
more than	what would one biscuit represent? 2 children. Explain when we create a				
one unit					



	pictogram the symbol needs to be the same so we would represent it with a circle for 2 biscuits.						
	Create a pictogram using cirles to represent the votes – if each half circle represents one vote then how many votes will a full biscuit represent? Create a key of one circle = 2 votes.						
	Question the children about the data. How many children liked digestives? How many liked hobnobs? Jammy dogers etc. How many more liked How many children liked chocolatey biscuts?						
	Ask the children to create a similar pictogram for fruits or similar where a symbol represents 2 votes and half a symbol represents one vote.						
	Greater Depth – show them a range of data and ask them to think about a sensible value for one unit.						
	If the data range went up to 40 would we be wanting to draw 40 symbols or even 20? What could 1 symbol sensibly represent? Could we show 1 vote easily? What about 2?						
	Can decide what scale to use on a pictogram based on the range of the data included in the frequency table.						
	Mastery with Greater Depth						
	Create two concrete niste grame to display the following information. The symbol						
	used in each should have a value of more than 1.						
	Which value will you choose for each pictogram?						
	Explain your decisions.						
	Class Number of movies auranded						
	Class	Hard work	Good behaviour				
	YR	42	32				
	Y1	39	18	1			
	Y2	24	27				
	Y3	30	33				
	Y4	18	24				
	Y5	30	24				
	10	39	30				
					<u>.</u>		
Can	Ask children to retrieve the data that they collected and presented in						
transfer	a tally chart during the first statistics lesson. Ask them now to use						
data from	multilink/Lego to show this data as bars. Show the children how to						
a tally	create an axis around the bars that they have created to give more						
chart to a	information – to label the bars and to give a scale to read the bars						
table	against.						



Can create Ask the children to change the scale on the y axis now to a scale that a bar chart increases in 2s. how will this change their data? What if the scale was going up in 5s - can they read the data now? to represent data Children to use their data to create a bar chart using drawn bars rather that multilink/Lego blocks. Can interpret Children to be given a range of bar charts to read that have a range of data in scales. Ask them to fill in frequency tables to show the bar chart data in a different way. Ask them questions about the data shown on each graphs and bar chart. understand varying scales of multiples Class Weekly awards for a tidy classroom of 2, 5 and e 3 awards 10 when Reception 0 00 reading Year 1 😬 😬 😬 +1 values Year 2 •••• presented in bar Year 3 😶 😶 +2 charts Year 4 • Year 5 • Year 6 😶 😶 +1 Mastery Transfer the information from the weekly awards table to the table below. Class Number of awards YR Y1 Y2 6 Y3 Y4 **Y5** Y6 Present the information in a bar graph. First4Maths - Digging Deeper - Page 42 SETTING THE SCENE Gus has been investigating how much time he spends playing sports each week. First, he created a table whilst he gathered his data. Day Number of minutes Monday 90 Tuesday 30 Wednesday 60 45 Thursday Friday 60 Saturday 105 Sunday 15







