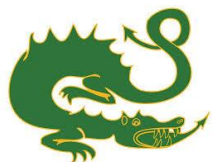




# Statistics

## Position, Direction and Movement

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	Interpret and present data using bar charts, pictograms and tables.	To understand the difference between discrete and continuous data.	Complete, read and interpret information in tables, including timetables.	Interpret and construct pie charts and line graphs.
	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.		Interpret and present discrete and continuous data using bar charts and time graphs.		Solve problems involving pie, bar and line charts.
	Ask and answer questions about totalling and comparing data.				
	<b>True or false?</b> (Looking at a simple pictogram) "More people travel to work in a	<b>True or false?</b> (Looking at a bar chart) "Twice as many people like strawberry than lime".	<b>True or false?</b> (Looking at a graph showing how the class sunflower is growing over time) "Our sunflower	<b>True or false?</b> (Looking at a train time table) "If I want to get to Exeter by 4 o'clock this afternoon, I will need to get to Taunton station before midday".	<b>True or false?</b> (Looking at a pie chart) "More than twice the number of people say their favourite type of T.V. programme is soaps than



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<p>car than on a bicycle".</p> <p><b>Is this true or false?</b> <b>Convince me.</b> Make up your own 'true/false' statement about the pictogram</p>	<p><b>Is this true or false?</b> <b>Convince me.</b> Make up your own 'true/false' statement about the bar chart.</p>	<p>grew the fastest in July".</p> <p><b>Is this true or false?</b> <b>Convince me.</b> Make up your own 'true/false' statement about the graph.</p>	<p><b>Is this true or false?</b> <b>Convince me.</b> Make up your own 'true/false' statement about a journey using</p>	<p>any other".</p> <p><b>Is this true or false?</b> <b>Convince me.</b> Make up your own 'true/false' statement about the pie chart.</p>
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Solving Problems					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<p>Solve one-step and two-step questions (e.g. How many more?) using information presented in bar charts, pictograms and tables.</p>	<p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p>Solve comparison, sum and difference problems using information presented in a line graph.</p>	<p>Calculate and interpret the mean as an average.</p>
		<p><b>Create a questions:</b> Pupils ask (and answer) questions about different statistical representations</p>	<p><b>Create a questions:</b> Pupils ask (and answer) questions about different statistical representations</p>	<p><b>Create a questions:</b> Pupils ask (and answer) questions about different statistical representations using key vocabulary relevant to the objectives.</p>	<p><b>Create a questions:</b> Make up a set of five numbers with a mean of 2.7.</p> <p><b>Missing information:</b> The mean score in six test papers in a spelling</p>



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		using key vocabulary relevant to the objectives.	using key vocabulary relevant to the objectives.		test of 20 questions is 15. Five of the scores were 13 12 17 18 16.  What was the missing score?
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Vocabulary					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	table column row diagram tally tally chart block diagram pictogram represent label title scale most/least popular most/least common category	interpret present bar chart graph caroll diagram	mode range equation rule discreet data continuous data survey questionnaire time graph	line graph bar line chart maximum minimum value outcome x- axis y – axis database	pie chart mean average median statistics distribution substitution rate sample