

## Knowledge Organiser



Year 6

**Statistics** 

Statistics involves the collection, analysis, interpretation, presentation and organisation of data. Scientists, journalists and researchers are just some of the jobs that use statistics.

Builds from Year 5: Interpreting line graphs and timetab	This year: netables. Reading and interpre Calculating the mean Interpreting pie char			ting line graphs. average. ts. Leads to Key S Describe simp between 2 var Find the mean			tage 3: le mathematical relationships iables. , mode, median.	
Interpreting Data								
Information can be shown in tables, charts or graphs.								
Interpreting data means understanding or working out what is being shown by a table, graph or chart and being able to answer questions about that information.								
<b>Discrete data</b> is data that can be counted and have a limited number of values. For example, days of the week.								
Continuous data is data that can have any value.								
Height, weight, temperature and length are all examples of continuous data.								
Line Graphs			Pie Charts					
Line graphs are used to show changes to a			Pie charts represent <b>discrete data</b> .					
measurement over time.			A circle is divided into segments, where each segment					
Data shown in a line graph is <b>continuous</b> .			represents a data category.					
A line graph to show the length of shadows over time			The size of each segment matches its proportion of the total amount.					
60 50 10 0 0 10 0 0 0 0 0		April May	Α μ	ic chart to sha favourite s	Kcy swimming netball football gymnastics	24 children were Swimming = $\frac{1}{2}$ Netball = $\frac{1}{4}$ so $\frac{1}{7}$ Football = $\frac{1}{8}$ so	e asked in total. so $\frac{1}{2}$ of 24 = 12 children $\frac{1}{6}$ of 24 = 6 children $\frac{1}{8}$ of 24 = 3 children	
09:00 10:00 11:00 12:00 Time				Gymnastics = $\frac{1}{8}$	so $\frac{1}{8}$ of 24 = 3 children			
Mean Average								
The mean is the average (middle value) of a set of data.								
To find the mean average, <b>add</b> up all the values to find the total. <b>Divide</b> the total by the number of values that you added together. This will give you the mean.								
12	15	10		8	1	15		
12 + 15 + 10 + 8 + 15 = 60 $60 \div 5 = 12$ The mean of this data is 12.								
Key Vocabulary								
pie chart line graph discrete	e data continuo	us data sı	um dif	ference	comparison	interpret	mean average	