



**Statistics** we learn to:

-Interpret Charts

-Compare/ Find the sum/ Find the difference

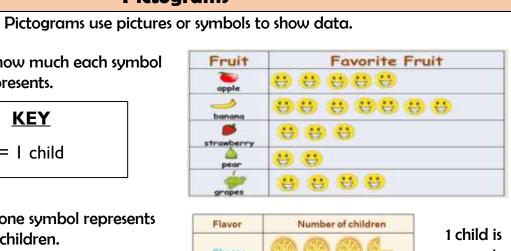
-Understand Line Graphs

This learning is important because...

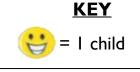
It also helps us to think critically to solve problems.

# **KNOWLEDGE ORGANISER**

#### **Pictograms**



The key shows us how much each symbol represents.





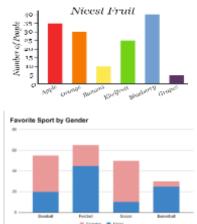
In this pictogram, one symbol represents four children.

This helps the pictogram creator to fit more data onto a smaller, simpler pictogram.

he key helps to show us how many children chose each flavour, e.g. 5 children chose BBO chicken.



-Bar charts show us the data in each category by using rectangular bars. They have a horizontal axis (across) and a vertical axis (running up and down).



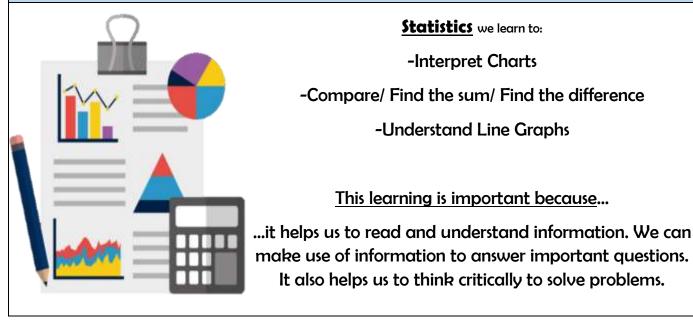
-Remember that there should be a space between each bar.

-Stacked bar charts show two sets of data. The example on the left shows the favourite sports of females and males.

-Some bar charts can have horizontal bars (see right).

				к	ey Vocabulary			
Data	Tally Chart	Bar Chart	Frequency	Table	Continuous	Discrete	Horizontal Axis	Ve

### **Overview**



## **Tally Charts and Tables**

-Tally marks are a useful way of tracking scores. Tally marks look like those shown on the right. The first four marks are straight vertical lines. The fifth line goes across diagonally, like a gate.

-Tally charts are one way of collecting data with tally marks.

-The tally chart on the right shows different transport methods to and from school for children in a class.

The frequency column is completed after all the data has been collected.

-Tables need to have clear titles and headings so that we can understand the data.

-The table on the right shows the different medals won by each country.

-Using this table, we can see that Kenya won the most gold medals, but Japan won the most medals in total.

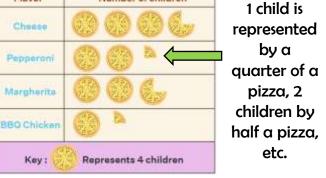
Country	Gold	Silver	Bronze	Total
Brazil	9	20	9	38
Egypt	7	16	10	33
Japan	8	16	19	43
Kenya	11	3	16	30
Norway	8	14	14	36
Thailand	6	23	2	31

Transport	Tally	Frequency
Walk	JRF JRF III	13
Bus	JHT II	7
Cat		- 4
Oike .	JHT .	- 5
Train	1	1

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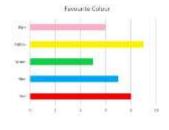
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Transport	Tally	Frequency
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Year 4

-The scale for each bar chart can change depending on the range of data. The bar chart on the left uses a scale of 5.



**Jertical Axis** 

Scale

