

# COMPUTING: DATA AND INFORMATION- Pictograms



## **Grouping, Counting and Tallying**

-Grouping: Objects can be put into different groups. These groups can be made up of objects that are the same, or objects that have the same properties (features).

Computers can help us by allowing us to put different objects into groups.

-Counting: Computers can be programmed to count the amounts in each group.

Jamie	5
Elizabeth	5
Ella	×
Harry	J
Marcus	J
In school: 4	Absent: 1

-For example, when your teacher takes the class register, the computer program can count how many ticks and crosses there are. The computer can then tell your teacher how many children are in class.

-Tallying: Tallying helps us to record as we			
count. We chunk into groups of five, with			
the first four counts looking	g like		
sticks, and the fifth count		Ш	
making the 'gate.'			
-Tally Charts: Tally	Animals	Tally Marks	

charts are used to collect data about the number in each group quickly.



-Block Charts: Block charts work in a similar way to pictograms, except each object is presented as a block. The block diagram on the right presents how different children get into school.

### **Presenting and Using Information**

-Computer programs such as <i>j2data</i> can help			
us to create pictograms and block charts.			
Clicking the + and – icons add and subtract			
pictures from our diagram.			
-Using Data: There should be a reason to			
collect data, and so it should be easy to read.			
E.g. this data could help someone know			
which fruits to buy if they are hosting a	yel		
party, or help the school chef	-W		
know which fruit to order in.	and		

#### Important Vocabulary

Organise Tally chart Votes Total Pictogram Enter Compare Count Explain Attribute Difference Most/least popular Conclusion Block diagram

### **Pictograms and Block Diagrams**

-Pictograms: A pictogram is a chart that uses pictures to display data. They can be made using pens or paper, or they can be made using a computer. The pictogram on the right shows the favourite fruits of a group of school children. Each piece of fruit shows what each child selected.



### **Answering Questions**

- ictoarams can be used in order to
- swer questions and solve problems.
- xamples may include:
- Vhich colour was the most popular?
- hich colour was least pular?
- low many more chose
- llow than chose pink?
- Vhat is the total of red
- d blue combined?

