

Year 2 Computing Knowledge Organiser - Spring 2

Theme: Data and Information



Key Knowledge and Skills

By the end of this unit children will...

begin to understand what data means and how this can be collected in the form of a tally chart. They will learn the term 'attribute' and use this to help them organise data. They will then progress onto presenting data in the form of pictograms and finally block diagrams. Pupils will use the data presented to answer questions.

Data and Information

Data can be numbers, words or figures. Information is what we can understand from looking at the data.

Objects can be organised into groups based on what they are or their properties.

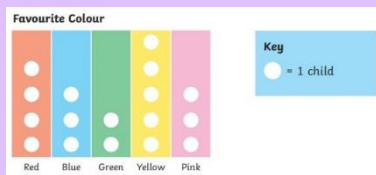
Tally Charts

Tallying helps us to record as we count. We chunk into groups of 5, with the first four counts looking like sticks, and the fifth count making the 'gate'. Tally charts are used to collect data about the number in each group quickly.

Fruit	Tally

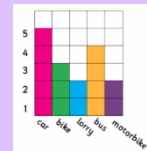
Pictograms

A pictogram is a chart that uses pictures to display data. They can be made using pens and paper, or using a computer. This pictogram shows the favourite colours of a group of children. Each white dot shows what each child selected.



Block Charts

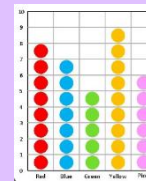
Block charts work in a similar way to pictograms, except each object is presented as a block. This block presents how different children get to school.



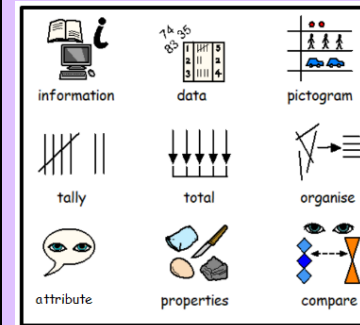
Presenting and Using Information

Computer programs can help us to create pictograms and block charts. We use programs within Purple Mash to help us do this in class. It is important to consider the advantages and disadvantages to using computer programs to help us present data. Tally charts, pictograms and block charts can be used help us answer questions and solve problems. Examples may include:

- Which colour was the most / least popular?
- How many more chose yellow than pink?
- What is the total of red and blue combined?



Key Vocabulary



information – facts or knowledge that have been gathered about something or someone

data – numbers, words or figures that we can get information from

pictogram – a chart that uses pictures to display data.

tally chart – used to collect data about the number in each group quickly.

total – the whole number or amount of something

organise – when we arrange data into groups based on what they are

attribute – a way to describe an object

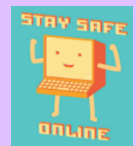
properties – the features of an item / object.

compare – we can use pictograms and tally charts to answer questions about the data and identify similarities / differences.

Online Safety

Self-Image & Identity

It is important to protect our personal information when we are online. One way that we can protect our personal information is by using an 'avatar' instead of a picture of ourselves when we need to upload a profile picture for a game or profile.



If we are playing games with others online, we must make sure we know who we are playing with – especially if they are using an avatar. To check that who we are playing with is actually who we think it is, we can ask them questions that only a friend would know the answer to.