

Maths Knowledge Organiser

Vocabulary

Key Word	Definition
2D shape	2D shapes have sides and corners and are completely flat.
3D shape	3D shaped have faces (sides), edges and vertices (corners).
vertices	a corner where edges meet
edge	the side of a shape
face	a flat or curved surface
line of symmetry	a line that cuts exactly a shape in half

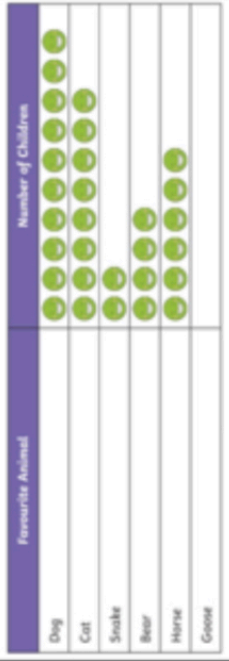
Table

A table is used to record information and collect results. The information can then be used to make pictograms or block diagrams to display results clearly. A table needs to have headings to show what you are measuring or recording.

Favourite Animal	Number of Children
Dog	10
Cat	8
Snake	2
Bear	4
Horse	6
Goose	

Pictogram

A pictogram uses pictures to represent data. It is quicker and easier to interpret the results in a pictogram than in a table or tally chart.



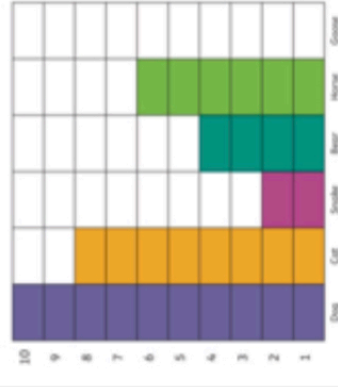
Tally Chart

A tally chart is used for counting how many of something you are recording. 1 tally mark shows you that there is 1 item. 4 tally marks with a diagonal line through it shows you that there are 5 items. In this example, the tally marks show how many children chose each of the animals as their favourite in a survey. Making a tally chart is faster than writing out words or numbers.

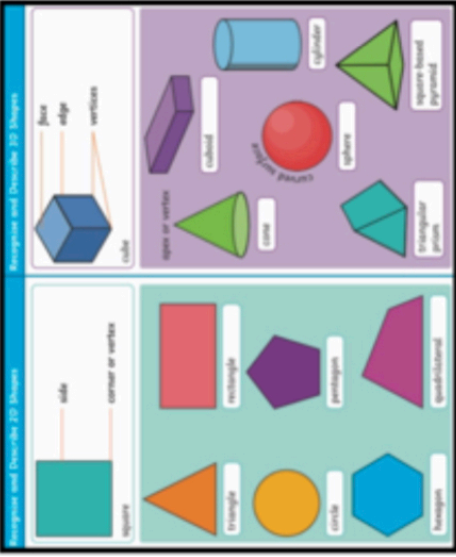
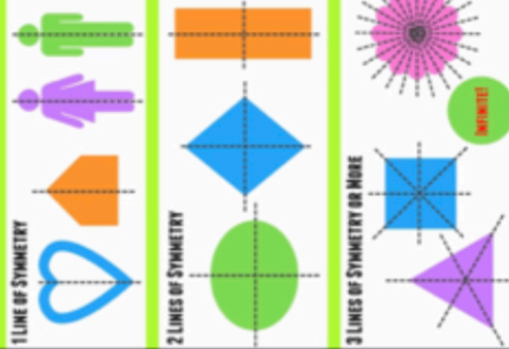


Block Diagram

A block diagram is used to clearly display results and information. Types of items are shown on the x-axis, which is horizontal. The number of items are shown on the y-axis, which is vertical. One block represents one item. It is quicker to compare results using a block diagram than a table or tally chart.



LINES OF SYMMETRY



2D Shapes

Name	Sides	Vertices
triangle	3	3
circle	1	0
square	4	4
rectangle	4	4
pentagon	5	5
hexagon	6	6
oval	1	0
rhombus	4	4
trapezium	4	4
parallelogram	4	4

Name

We see...

cube	<ul style="list-style-type: none"> 6 flat surfaces 12 edges 8 vertices all edges are the same
cuboid	<ul style="list-style-type: none"> 6 flat surfaces 12 edges 8 vertices not all edges are the same
square-based pyramid	<ul style="list-style-type: none"> 5 flat surfaces 4 triangular faces 4 sharp points 4 square base
sphere	<ul style="list-style-type: none"> perfectly round no edges no vertices
cylinder	<ul style="list-style-type: none"> 2 flat surfaces 1 curved surface 2 curved edges
cone	<ul style="list-style-type: none"> 1 flat surface 1 curved surface 1 point