Information Graphics: Graphs, Schematic Diagrams, Symbols and Signs.

The final kind of graphic we need to learn about performs a unique function and therefore sits in a category by itself. It is called information graphics.

There are 4 main types of information graphics

- graphs,
- schematic diagrams,.
- symbols,
- signs

<u>Graphs</u>

There are three main types of graph.

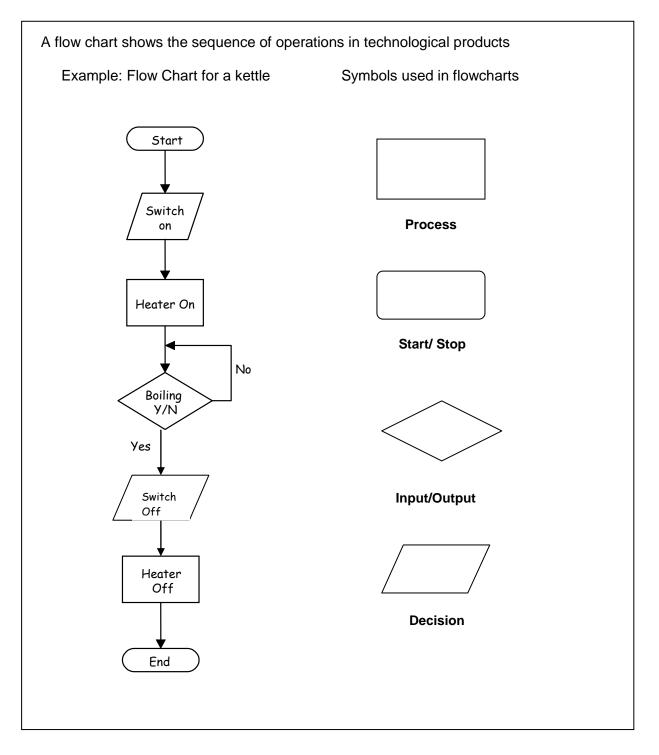
Although we will be focusing on **pictograms** you should be aware of the different types of graph and their purposes.

Type of	What they are	Example
<u>Graph</u>	used for?	
<u>Grapn</u> Line Graphs	A line chart is often used to visualize a <u>trend in data over</u> <u>intervals of time</u> . In this example it shows the acceleration of an object over a period of time. Notice the graph has a title, a label on the x-axis (time), a label on the y axis (speed) and the values at each point are easy to read because of the divisions on the axis and the indication of units 's' for seconds) and	Graph of Speed v's Time
	'm/s' (for metres per second)	

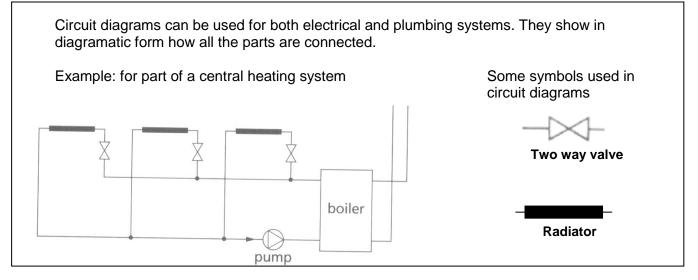
Bar Graphs	A bar graph is a chart that uses either horizontal or vertical bars to show <u>comparisons of</u> <u>quantities</u> between categories.	Top 10 Selling Sony Games
<u>Pictograms</u>	A pictogram is similar to a bar chart because it used to <u>compare quantities</u> <u>of data</u> . However is often preferred by graphic designers because it is a more <u>eye-catching</u> .	<figure><figure><complex-block><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></complex-block></figure></figure>
Pie Charts	Pie charts are often used to show	Favorite Activities
	quantities in terms of percentages. The larger the segment of the pie the larger the percentage of the total amount. Notice in this example the title (favourite activities, the label to explain each segment (e.g. walking) and the quantity as a percentage	Walking 40% Use Cycling 24%

Schematic Diagrams

Schematic Diagram 1: A Flow Chart



Schematic Diagram 2: Circuit Diagram

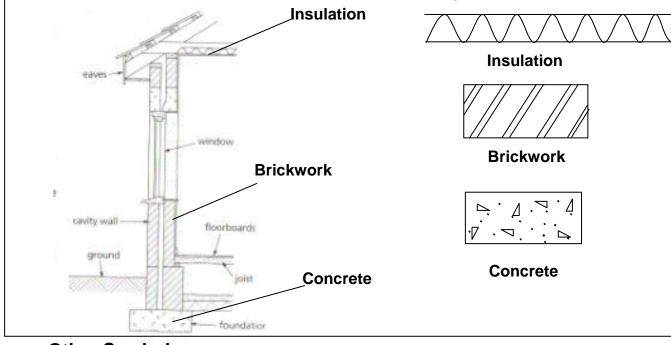


Schematic diagram 3: Sectional views of buildings

Sectional views of buildings show the different materials used in the construction

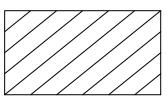
Example: Cross section of house with cavity wall

Some symbols used in circuit diagrams

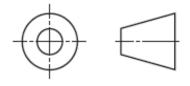


Other Symbols

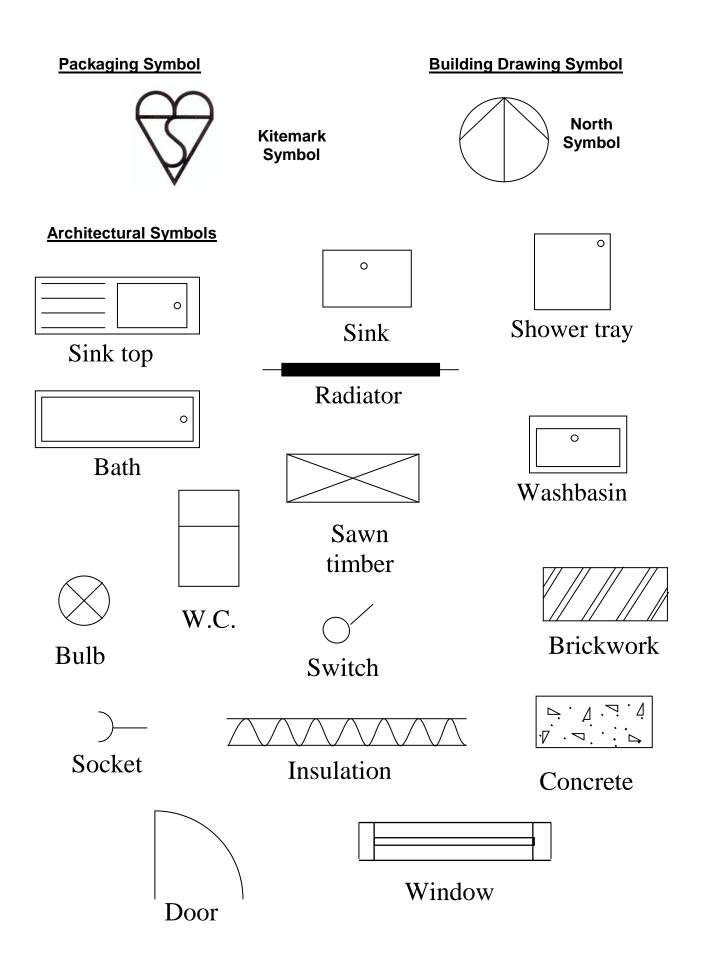
Drawing Symbols



hatching



third angle projection symbol



Warning Signs (forcolour version see Edmodo)

- These signs are yellow and black.
- They are normally triangular but can be other shapes.



Signs - Mandatory signs

- These signs are blue in colour with white graphics.
- They give a positive instruction. In other words they tell you what to do rather than what not to do.



Safety Mask must be worn

Signs - Prohibition signs

- These signs are circular with a line across the circle.
- They have red lines and black graphics.



No smoking

Signs - Safety Signs

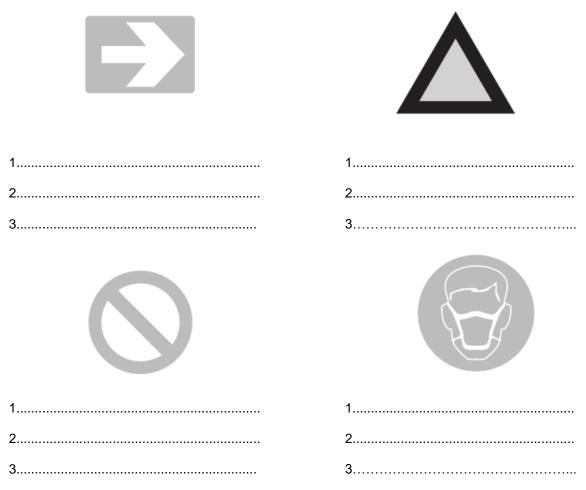
- These signs show a safe condition or direct people to a safe location.
- They are green in colour with white graphics



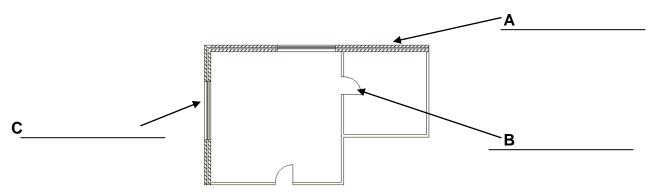
Information Graphics: Graphs, Schematic Diagrams, Symbols and Signs.

Q1 Look at the following signs shown below. Name the

- 1. type of sign,
- 2. colour 1
- 3. colour 2
- used in each



Q3 Label the following architectural symbols shown at A, B and C



Q3 Write down the name and sketch the type of graph would be used in the following situations

Scenarios	Name and sketch of the most appropriate Type of Graph (add		
	appropriate title to your axis, pie segments)		
A graph which			
shows how over a			
period of time the			
number of mobile			
phones in the world			
has increased.			
The total amount of			
government			
spending in Britain is			
100 billion pounds.			
The amount of			
government			
spending allocated			
to each government			
department as a			
proportion of the			
total amount.			
A graph which			
shows the quantities			
of different kinds of			
birds in a bird			
sanctuary. It is to be			
part of leaflet			
advertising the bird			
sanctuary so should			
be as eye-catching			
as possible			