

# PICTOGRAMS AND FLOWCHARTS

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# PICTOGRAMS AND FLOWCHARTS

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# QUESTIONNAIRE TO PICTOGRAM

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A very important aspect of research work, is a survey or questionnaire. This may be a series of questions, with the results collected as a table. E.G. If you are designing an alarm, a table of results may look like the one below.  
QUESTION: What type of Alarm do you need?

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information /  
an exercise

ALARM TYPE	No OF PEOPLE
BICYCLE	15
BRIEF CASE	20
DOOR	24
PERSONAL ALARM	5
CAR	7
PICK-POCKET	10
WINDOW	29
TOTAL	100

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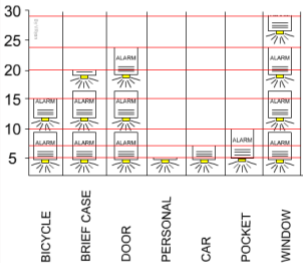
# CONVERT TO PICTOGRAM

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The Table of Results is a plain table, whilst the pictogram should include graphics / images.

The pictogram below is built up of alarm boxes, in place of 'bars' in a bar chart.

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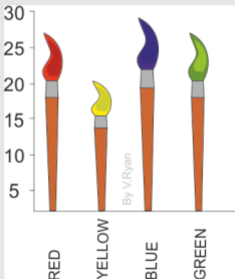


# SAMPLE PICTOGRAMS

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Pictograms can be an interesting visual component of research work. They give the opportunity to show how plain statistics can be presented in an interesting manner.

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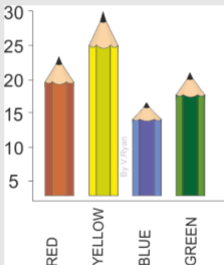


# SAMPLE PICTOGRAMS

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The pictogram below has been drawn to represent the most popular colour, from a limited selection of red, yellow, light blue and green.

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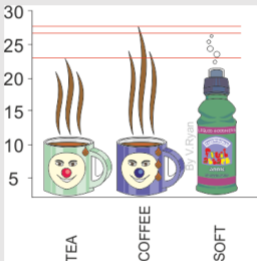


# SAMPLE PICTOGRAMS

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This pictogram has been drawn to represent the findings of a survey, which asked people to choose between tea, coffee or a soft drink, as their favourite break time beverage.

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# SAMPLE PICTOGRAMS

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**Tap the link button** for information and exercises on pictograms.



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# EXAMINATION QUESTION - PICTOGRAMS

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A number of food packaging manufacturers were asked to name the materials they used, in their products. The results are seen in the table below.

Draw a pictogram to graphically represent the table of results.

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NUMBER	MATERIAL
30	QUALITY CARD
25	POLYPROPYLENE
15	POLYSTYRENE
20	BIODEGRADABLE CARD
10	METALISED / ALUMINUM FOIL

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# WHAT ARE FLOWCHARTS?

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Planning the manufacture of a design, is an important aspect of the design process. Plain flowcharts are often associated with planning a mass production line, so that thousands of a product can be manufactured efficiently.

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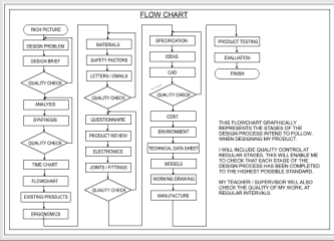


# THE DESIGNER AND FLOWCHARTS

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A flowchart is an excellent way of planning a project. Each stage of the project is set out as a sequence of events. Part of a typical, standard flowchart is shown below. It shows the contents of a design folder, set out as a number of individual stages. Each stage leads to the next, displaying the sequence of events

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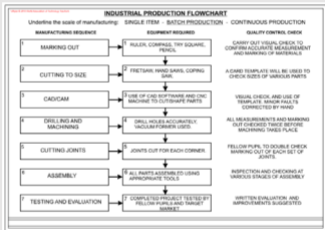


# PRODUCTION FLOWCHARTS

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These show you intend to manufacture a product as stages, including equipment and tools to be used and quality control checks. As a product is manufactured, quality checks are recorded. The flow chart displays all planning.

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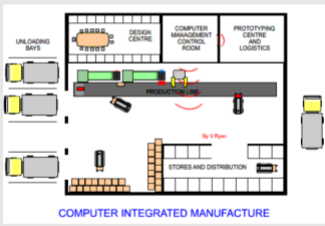


# PRODUCTION FLOWCHARTS

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The diagram below shows how a computer control room directs all operations inside the factory. The factory below manufactures DVD / CD Storage units. Click on the image to view the flowchart, outlining this Computer Integrated Manufacturing system.

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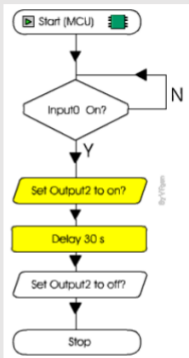


# DESIGNERS AND PROGRAMMING

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Designers involved in the design of programmable circuits use flow charts. They are used to plan the way a circuit will work, when it is programmed.

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# PICTORIAL FLOWCHARTS

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Flowcharts are often drawn so that they are straightforward and formal looking. Pictorial flowcharts are different, they are graphical and illustrative.

**Tap the image** for an explanation of the pictorial flowchart below.



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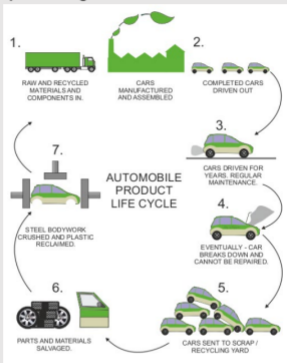
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# PICTORIAL FLOWCHART - LIFE CYCLE OF A TYPICAL CAR

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# PICTORIAL FLOWCHART MANUFACTURING A PRODUCT

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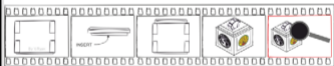
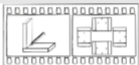


# FLOWCHART - BASED ON A FILMSTRIP

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This pictorial flowchart is based on a filmstrip. All the drawings and the 'filmstrip' have been sketched, rather than accurately drawn with drawing equipment

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# SEQUENCE DRAWINGS

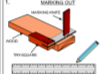


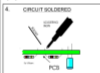


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This is a way of working out every stage of making a product. It should be quite detailed, allowing anyone reading it, to understand how the product is manufactured.

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PRODUCT: CHILD'S ELECTRONIC GAME

I have drawn/photographed the stages involved in the manufacture of my product. I have added explanatory notes.

<p>1. MARKING OUT</p>  <p>The materials are marked out using a range of tools including rulers, try squares and marking gauges.</p>	<p>2. CUTTING TO SIZE</p>  <p>The materials are cut to size using a fret saw and hand saw. All measurements are checked before cutting.</p>	<p>3. JOINTS CUT / FITTINGS ADDED</p>  <p>All joints are cut using tools such as chisels. Safety is considered with materials held securely to the bench.</p>
<p>4. CIRCUIT SOLDERED</p>  <p>The components are soldered to the PCB. Safety precautions taken during manufacture.</p>	<p>5. VISUAL CHECK AND TESTING</p>  <p>Check the solder joints by visual methods. Look for any breaks in the copper track and missed joints.</p>	<p>6. FINAL QUALITY CONTROL</p>  <p>The circuit is tested for faults and passed. The container is checked for safety sharp-edges and damage etc...</p>

SEQUENCE DRAWING

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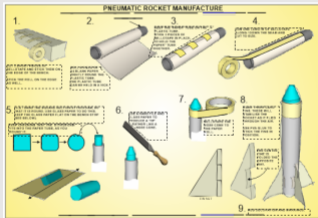


# INSTRUCTION DRAWINGS

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Instruction sheets are composed of drawings / photographs and written instructions. They are used to explain stage by stage, how something works or how something is put together. A good example is 'knocked down' furniture. The example below is a sheet of instructions, for manufacturing an air-powered card rocket

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