



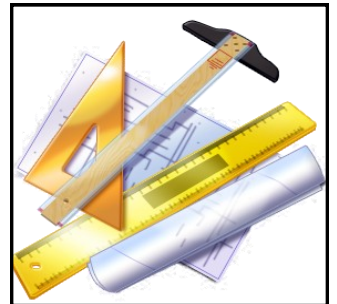
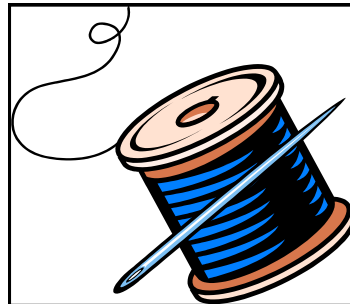
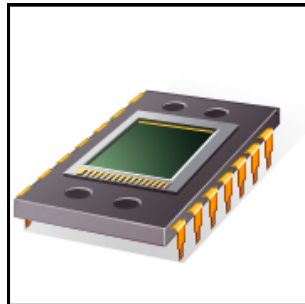
Aston Comprehensive School
Design and Technology Department

Systems & Control

Technology

Extended Learning Task

Project Guide



My name is: _____

My teacher's name is: _____

My technology group is: _____

Introduction & Planning

Over the next six weeks you will complete this extended learning task (ELT) project. The table below shows what you will be doing for each section, when you should start it, and when you should hand it in.

To help you to track your progress you should tick the *done* box when you have completed a section.

Topic	Theme	Start Date	Deadline Date	Done	Effort
1	Health & Safety Classroom health and safety guide.				
2	Research Investigation into electronic devices in the home.				
3	Survey & Data Analysis Research in to the most common household electronic devices.				
4	Evaluation At the end of this project you must think about how well you have worked and how you think you have learnt from this activity.				

My final deadline is: _____

Task Number One

Health and Safety

Theme

Safety in Systems and Control Technology

Task

You must design a health a safety guide showing all of the hazards that there may be in a Systems & Control classroom.

It must include how to use machines safely and also include a list of class-room rules.

The guide must include how to use the following equipment safely:

- Bench drill
- Soldering irons
- Electricity supply
- Solder

The guide should be presented on a sheet of A4 paper in a clear and colourful way.

Grading Criteria

Level 3: Identify at least two hazards with a reasonable standard of presentation.

Level 4: Identify at least four hazards and add a short description of how the risks can be minimised, presented to a good standard.

Level 5: Identify at least five hazards and provide a detailed description of how risks can be minimised, presented to an excellent standard.

Notes

Task Number Two

Research

Theme

Research into electronic equipment

Task

Your task is to investigate how many different electronic devices there are in your house.

To get started use the notes section at the bottom of this page to write a list of the devices you have found.

Produce a clear and colourful A3 poster showing what equipment you have in each room.

You can present it in any way you like but you must include images and highlight which rooms you found the devices in. You could either take pictures of the equipment in your home, cut images out of a catalogue or download images from the internet.

Grading Criteria

Level 3: Produce a labelled poster showing some of the products in your house.

Level 4: Produce a labelled poster consisting of good quality images and presented to a very good standard.

Level 5: Produce a clearly labelled poster consisting of high quality images presented to an excellent standard. You must include research for every room in your house.

Notes

Task Number Three

Survey & Data Analysis

Theme:

Household electronic devices survey

Task

Your task is to carry out a survey of the different electronic devices that your friends or relatives have in their houses. You must ask at least five different people.

First of all write a list of all of the equipment you think you might find in a home. You could list the items you found out in the previous task to help you. You could use a tally chart to count up how many houses have particular pieces of equipment.

Once the data has been collected a bar chart can be produced to show the results. The chart should be clearly presented with a title, axes labelled and coloured.

From these results you should be able to summarize your findings stating which pieces of equipment are most common.

Grading Criteria

Level 3: Produce a chart showing at least five different products. Write a simple description of your findings.

Level 4: Produce a labelled chart showing at least ten different products. Write a description of your findings.

Level 5: Produce a fully labelled chart showing at least fifteen different products. Write a detailed description of your findings.

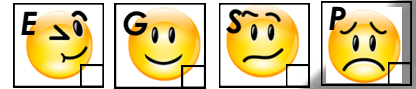
Notes

Task Number Four

Evaluation

Effort

Self Assessment



What new skill have you learnt by doing this project?

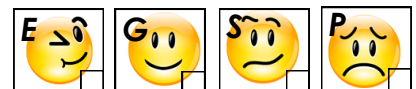
Which part of the project did you find difficult. How did you overcome your problems?

If you could do the project again what would you do differently?

What did you enjoy most about this project?

Effort

Teacher's Feedback



Date:

Comment:

NC Level:

To improve you must:

Personal Learning & Thinking Skills

Self Managers	<i>What I should look for?</i>	<i>How have you achieved this?</i>	<i>Achieved?</i>
Seek out challenges or new responsibilities and show flexibility when priorities change.	Have I learnt any new skills?		
Work towards goals, showing initiative, commitment and perseverance.	Have I completed my project? Am I working to my target level or above?		
Organise time and resources, prioritising actions.	Can I manage my time effectively and finish tasks in the time allowed?		
Anticipate, take and manage risks.	Do I work in safe and hygienic way?		
Deal with competing pressures, including personal and work related demands.	Have I meet deadlines for all class work and ELTs?		
Respond positively to change, seeking advice and support when needed.	Do I try my best and ask for help when I need it?		
Manage their emotions, and build and maintain relationships.	Do I get upset when things don't go right the first time. Do I work well with other students?		