

Mount Temple CS: First Year outline Scheme

Previous knowledge:

It can be assumed that the students have no previous knowledge of the subject area or the skills associated with it.

Module Format:

The module will take the form of one double period per week for approximately 14 weeks.

Scheme:

As the students are effectively doing a taster course to allow them to sample as many subjects in first year as possible, before actually choosing to carry the subject for JC , they have no theory books relating to the subject. They will be provided with notes and some text books, but the module is mostly practical based.

Aims and objectives:

Aim:

The main aim of the module is to introduce the students to the basic tools, skills and equipment available and to foster interest in the subject through the completion of a number of practical projects.

Objectives:

The students will be able to mark out simple shapes from a given drawing.

The students will be able to manipulate basic equipment available to them in the room.

The students will be aware of safety and operating procedures in the room.

Assessment:

Assessment will be on a continuous basis through a grading system for both the key-tag[20%] and the basic car[70%]. There is a discretionary mark[10%], that can be applied for behaviour etc... Students will not be graded on their first project, to allow for natural nervousness and the learning of skills.

The students will complete 3 projects, showing a range of basic skills and techniques. (see details below) An

extra project may also be done by pupils. The extra project will also not be graded, but this will be taken into account on comments, as it is primarily for higher achieving students who finish other projects early.

Lesson/project	New skill/knowledge	Expected time frame	Notes
Safety	Basic tour of the room, emphasise exits, evacuation procedures, medical and safety equip, emergency stops, tool boxes, lockers etc..Safety handout and worksheet.	2wk	Assign lockers and list benches. Use small text books in room
Nameplate	Marking out, measuring, cutting, filing, drilling, punch work, finishing	2-3 wk	Go through steps involved on the board first[add sketches where appropriate], and get students to mark out and cut project to size for homework from card or paper
Key tag	Convex filing, centre line marking out, engraving.	2wk	
Basic Car	Lathework, tapping, threading, slot cutting, assembly.	6-7wk	
Extra/seasonal			Allow students who finish early to work on an extra project e.g. candle holder, using materials available
Project	Materials required		Extra tools required
Nameplate	1mm brass/Cu/Al sheet[70x16 individual pieces]		Letter punches, cordless drill, 3mm bit
Key tag	3mm Acrylic[24x70 individual pieces]		Electric engraver, cordless drill, 3mm bit
Basic car	150x40x6mm acrylic Dia 4mmx28 steel bar[2 of] Dia 25mmx10 nylon[4 of]		Lathe, 4mm tap, 4mm die, drilling mc.
Extra	Use available material, recycle where		

	possible		
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