NOTE:
This is an excerpt from a DM & C Computer Applications folio

Calculations:

Calculations-Cutting list for the legs:

1 leg= 250.4mm x 810mm
Inner bracing= 250.7mm x 200mm
Table top (MDF)= 16mm raw 2400mm x 1200mm
Insert (MDF)= 25mm raw 2400 x 1200
Leg bracing (Maple)= 1.5m

Therefore there are 4 legs and 2 inner bracing all timber for legs and leg bracing is maple. Hardware stores sell maple.

Cost and measurements:
Legs: I require 2 lengths of maple each length measuring 50 x 300 costing $271.93, and there will only be a bare minimum of waste of 515mm.
Table Top: Require 2 sheets of MDF. One sheet 25mm 2400 x 1200 which costs

Timber Order:

Ordering timber for the legs was made from Unanderra Hardware Man I ordered two lengths of Maple 50 x 300 the reason for a large thickness and length is that Black Jack tables are very heavy and all the weight is all on the legs so they have to be of the best quality a also appearance plays a major in my timber choice.
I ordered my timber on the 2/12/01 and was delivered on the 12/01/02.

Selection & Justification of Materials, Components, Processes & Other Resources

Materials

Options	Choice	Justification
Legs: Maple Gum River Red Red Cedar	Maple	Durable and strong, has An excellent finish, holds Shape well, holds large Masses.
Table top MDF Plywood Chipboard Pine	MDF	Inexpensive, strong and Easy to work with does Not chip and crack easily.
Arm Rest Chipboard Pine Ply-wood MDF	Pine	Inexpensive, very easy to Work with.

_The material used for my project was for the legs Maple because the overall effect I was looking for was an antique and old appearance. Maple is a very strong and durable type, which was needed to hold heavy materials.

For my tabletop I used MDF due to the fact that it is cheap and on the other hand is durable and very easy to work with which helps in making a large project.

The Armrest I used 5 strips of one-piece ply and MDF because it was very easy to bend and make a mould around my table and was inexpensive.

Evidence of Problem Solving

In a project of this nature problems are going to occur. In this section I will have documented the problems I have encountered and how I was able to solve them.

Problem one: When working on the inside of my H-legs I routered down too far which caused the brace of the legs to change. Therefore changes had to be made.

Resolution: Luckily the routering did not go all the way down so I had to re-measure the brace and make the routering join the brace evenly. My plan in the beginning was to only router the outside of the legs, however a lack of concentration as shown can almost destroy your job.

Problem two: While routering, the wheel that the router runs on stiffened up and required oil to loosen it up. However due to the stiffness of the wheel I burnt a black line down the side of the legs.