CORRUGATED CARD MODEL

I modelled one of my ideas using corrugated card. I made a rough model so that I could test my basic design. The corrugated card was recycled from boxes and I found it ideal for the first stage of modelling.

This is the front of my MP3 station. I added two disks that represent the speakers. They were made from the same corrugated card and painted. This helped me experiment with the positions of each speaker, the equaliser and controls.

I tried round buttons and used clipart as the graphic equaliser. I decided on the best arrangement for the buttons, speakers and equaliser and glued the parts together using PVA.

Go to http://www.technologystudent.com/designpro/despro1.htm for detailed information on the iterative design process including model making.

When the main parts were ready, they were glued together, with the aid of a limited amount of sellotape. This helped me work out the number of parts I will need for the final product.

Basic equipment needed for making the model. PVA, sellotape / double sided tape and craft knife and safety ruler.

The body of the MP3 station was the most difficult to make. The corners were made by folding each corner with the aid of a steel ruler and steel tube. This gave the size of curve I needed. I used sellotape to hold the piece together. I quite like the width and height measurements, although I may alter the depth, so that it is slimmer in appearance.

I cut the legs and supporting rail from a side of a corrugated card box. The slots in each side were cut with a craft knife. The three parts were glued together with PVA. The ‘through housing joint’ proved suitable for card and it will be suitable for the real product.

I used an image from the internet and glued it onto card, to make the MP3 player. When I place it on the top of the MP3 station, it will enable me to work out the best position for the customer (ergonomic design).

This is the final scaled model. It measures 350mm X 130mm X 270mm. It is approximately half full size.

FOCUS GROUP SUGGESTIONS

A focus group composed of other pupils, suggested putting the buttons on the top, making it easier to access them. It was suggested that legs may not be needed, but they could be an option. The MP3 player may be more popular if it was supplied in a range of colours.