Design and Technologies

Touch-lamp Design Brief

Investigation – Due Date:

☐ Investigate the 9 Product Design Factors and give a brief explanation of each one.

☐ Research sustainably harvested timber. What does sustainably grown mean?

☐ Create a set of 5 evaluation criteria for your finished Touch-lamp based upon the Product Design Factors.

☐ Research how the following electronic components function. Explain what they do and write the symbol that is used in electronic drawings.
  - Resistor
  - Diode
  - Capacitor
  - Transistor
  - Light Emitting Diode

Design – Due Date:

☐ Sketch the Touch-lamp on an A3 sheet of paper and use colour and annotation to show innovation, materials and processes.

☐ Draw the Touch-lamp in Fusion 360. Follow the video tutorials and print out each drawing in both Orthogonal and Isometric views.

☐ Design the lamp shape to suit the LED light strip. You will be using Acrylic plastic that can be molded into certain shapes.

Onguard training web link
http://www.1300acepro.com/OnGuardACEPro2014/content/login.asp?schoolKey=lilydaleaa.vic
Produce – Due Date:

☐ Keep a production diary and include pictures of your progress class by class.

☐ Complete the Onguard training. This will be assessed online and there is no need for printing the certificates.

☐ Assemble the Touch-lamp electronic board and have it functioning correctly.

Evaluation – Due Date:

☐ Measure your finished product against the evaluation criteria already set in the Investigation section. Be critical.

☐ What would you improve if you made the Touch-lamp again.

☐ Write a paragraph describing how you feel about your completed Touch-lamp. Comment on things like; how you used your time; is the finished result what you imagined. Explain why or why not.

⚠️ All work must be completed and presented in a folio in the order shown.