

# Design and Technologies

## Touch-lamp Design Brief

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### 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.



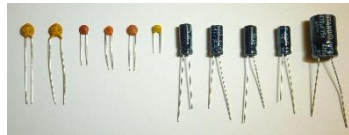
- Resistor



- 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.

### Produce – Due Date:

- Keep a production diary and include pictures of your progress class by class.
- Complete the Ongoing 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.**

