

Project: Wicked Warnings

What are we learning about?

During this project you will be learning about vacuum foaming and a new type of polymer (thermoplastic). You will also learn about electronics and how to create a circuit to a final design. The complexity of products construction is underestimated and this project will enable you to appreciate the work a designer does to produce a product.

Why are we learning about it?

Many products that we own use a variety of materials and include multiple components. Electronics is a new topic.

What new KNOWLEDGE will I gain?

- The properties of thermosetting polymers.
- How to design a product on CAD considering the functions of a new CAM machine.
- How electrical circuit work.
- How to use a vacuum foaming machine.

How does this build on the KNOWLEDGE I already have?

- More knowledge of polymers.
- Able to use new functions on 2D Design.

What new SKILLS will I develop?

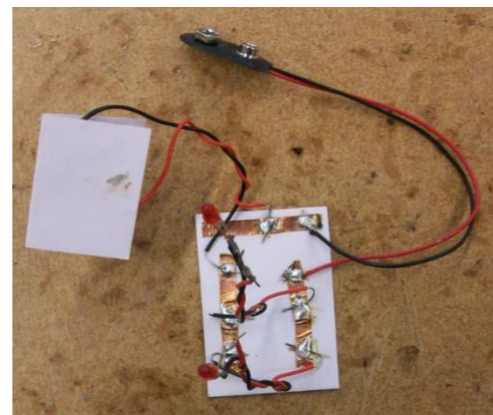
- How to solder electrical components to create a circuit.

How does this build on the SKILLS I already have?

- You already know how to use 2D Design but only on a basic level.



Door Hanger



Electronics



Soldering Iron



CAM – Vinyl Cutter



Laser Cutter

Vacuum Foaming



Thermoplastic and a Thermosetting Plastic

