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 produces 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.

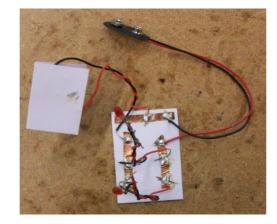
What new **KNOWLEDGE** will I gain?

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





Door Hanger



Electronics



Soldering Iron





Laser Cutter



Thermoplastic and a Thermosetting Plastic



DESIGN

CAM - Vinyl Cutter





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.