



## Overview

In the Technology faculty we develop students into independent problem solvers, by teaching the students how to independently produce bespoke products in response to a given design brief. We base all our learning and assessment around our ethos of Design, Make, Evaluate and Knowledge. In Year 9 Students will be given the opportunity to develop their learning for year 7 and 8. They will now enhance their electronics, CAD and hand tool skills to make an electronic truck desk tidy. Venture into the world of sustainable architecture to design and make a scale model house for a given client, and then design a range of sustainable jewellery showcasing all their design and making skills.

## Autumn

### Dump Truck – desk tidy.

1. Production planning Frame manufacture – mitre joints
2. Orthographic drawing
3. Manufacture - mitre joints and base.
4. Manufacture – base.
5. Manufacture – assemble
6. Assessment / CAD – Fusion 360 set up.

### Assessment:

**Design** – full autonomy of the item's appearance, ensuring that the influence of Yinka and Morag are evident in the design.

**Make** – using CAD/CAM and workshop to create all components.

**Evaluate** – throughout the project and as a final evaluation.

**Knowledge** – selecting correct tools and exporting correct file type, enhanced knowledge of sustainability and recycling polymers. Style and features of the designers.

## Spring

### Dump Truck – desk tidy.

1. CAD Fusion – create net
2. CAD Fusion – Orthographic drawing
3. Line bending/electronics
4. Line bending/electronics
5. Line bending/electronics
6. Assemble/evaluate / Assessment

### Assessment:

**Design** – full autonomy of the item's appearance, ensuring that the influence of Yinka and Morag are evident in the design.

**Make** – using CAD/CAM and workshop to create all components.

**Evaluate** – throughout the project and as a final evaluation.

**Knowledge** – selecting correct tools and exporting correct file type, enhanced knowledge of sustainability and recycling polymers. Style and features of the designers.

## Summer

### Architecture – sustainable architecture

1. Sustainable houses.
2. Intro to Fusion 360
3. CAD house designs
4. CAD house designs
5. CAD house/ landscape design
6. CAD landscape design

### Assessment:

**Design** – full autonomy of the item's appearance, ensuring that user centred design is a focus.

**Make** – using card modelling, finishing skills and CAD/CAM to create a scale model of a home for the client.

**Evaluate** – throughout the project and as a final evaluation.

**Knowledge** – selecting correct tools and exporting correct file type, enhanced knowledge of sustainability through selecting material and energy sources. Ensuring that the needs of the client are met in the final design proposal.

### Useful resources for supporting your child at home:

Excellent design sketching tutorials:

[product designer maker - YouTube](#)

Student access to Focus eLearning – direct link given to students - excellent Fusion 360 video tutorials