



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

Cement passive speaker

1. cement and concrete
2. finger joint box
3. geometric pattern
4. box assembly/ 3D printing
5. concrete pouring / photo rendering
6. assemble, test and evaluate

Assessment:

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

Make – CAD/CAM and finishing skills

Evaluate – throughout the project and as a final evaluation.

Knowledge – selecting correct tools and exporting correct file type, selecting materials, finishing skills, materials and processing knowledge.

Spring

Cement passive speaker

1. box assembly/ 3D printing
2. concrete pouring / photo rendering
3. assemble, test and evaluate

Architecture – sustainable architecture

1. Sustainable houses.
2. Intro to Fusion 360
3. CAD house designs

Assessment:

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

Make – CAD/CAM and finishing skills

Evaluate – throughout the project and as a final evaluation.

Knowledge – selecting correct tools and exporting correct file type, selecting materials, finishing skills, materials and processing knowledge.

Summer

Architecture – sustainable architecture

1. CAD house designs
2. CAD house/ landscape design
3. CAD landscape design
4. Assembling
5. Electronics.

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