



OVERVIEW

In the Technology faculty we develop students into independent problem solvers. In Design and Technology students independently produce bespoke products in response to a given design brief. Students begin developing their knowledge and skills in designing, making, and evaluating through the Pioneer program the focus will be on CAD Computer Aided Design and CAM Computer Aided Manufacture. Students will become competent, fluent CAD designers who are able to respond to a design brief and create a fully functioning, professional CAM manufactured product. Due to the practical nature of the subject, students will receive verbal feedback during each lesson, formal feedback will take place at the end of each project.

Autumn

V&A design competition

7. Introduction to V&A Innovate
8. Choosing the challenge
9. Planning and research 1
10. Planning and research 2
11. Planning and research 3
12. Make 1

Assessment:

Assessment will take place at the end of each module; students will be assessed on the four key elements of design education:

DESIGN - Generating, developing, modelling and communicating ideas.

MAKE- Planning and sequencing, modelling, prototyping.

EVALUATE - Own ideas and products, other products, prolific designers.

TECHNICAL KNOWLEDGE - Making products work, crafting, creating, use of technology.

Spring

V&A design competition

1. Make 2
2. Make 3
3. Make 4
4. Make 5
5. Visualisation
6. Presentation

Short Term Shelter – Inspired by the RAF

8. Design Context
9. Empathize – Research
10. Define– Research
11. Ideate -design phase 1

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Summer

Short Term Shelter – Inspired by the RAF

Ideate -design phase 2

1. Ideate -design phase 3
2. Prototype 1
3. Prototype 2
4. Prototype 3
5. Prototype 4
6. Test
7. Presentation

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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.