

Cambridge Nationals Certificate in Design and Manufacture

Contact Person: Mrs N Allright

Contact Email: NAllright@nailseaschool.com

Course Outline:

The course in Design and Manufacture enables students to develop and enhance new products. This qualification is an opportunity for students to use practical skills such as drawing, computer modelling, prototyping and manufacturing. A wide range of tools, equipment and materials will be available to enhance the quality of a final product. By combining two Cambridge National Certificates in Design and Manufacture, students can aspire to gain the equivalent of two GCSEs at the end of Year 11.

Skills/attributes developed/required:

Year 10 Design – Communication, higher level designing, being able to follow and create working drawings, CAD/CAM, project management and critical analysis.

Year 11 Manufacture—working with a range of tools and equipment to make a quality product.

The attributes that you as a student need to bring to this course:

Skills in designing and making, presentation, modelling and evaluating. The ability to meet regular deadlines.

Additional considerations:

A £12 contribution towards materials, a revision guide and an A3 folder. There will be a wealth of useful resources to help students through the course.

Examination Information

Exam Board: OCR

Exam: Design 75% Coursework 25% Exam (1hr Paper)

Manufacture: 75% Coursework 25% Exam (1hr Paper)

Exam Outline: Design and manufacture, inclusive of scientific and mathematical principles

Where can it take me?

Next Steps: A Level Product Design

Future career opportunities that this subject may lead to: Engineering, Construction, Carpentry, Product Design, Automotive Industries, Advertising, Digital Marketing.

What do Year 10 and 11 say about Design and Manufacture?

“I’m really glad I chose this subject. It has been fun learning how to design things that I have come up with and then be able to make them too.”

“It gets you thinking about how we use products and how we can make them better.”