



Ripon Grammar School

Dear Student,

We're excited to welcome you to the start of your A Level Design and Technology journey. Over the next two years, you'll take a deep dive into the world of design—tackling creative challenges, developing innovative solutions, and understanding how design influences and improves the world around us.

You'll build your skills in research, ideation, prototyping, and project management, all while working on real-world design problems. Whether you're passionate about product design, sustainability, or user-focused innovation, this course will empower you to think critically and creatively.

Be prepared to question, experiment, and take ownership of your learning. This is your opportunity to bring your ideas to life—and we can't wait to see where your design journey takes you.

In your first year, we will focus on developing your design and manufacturing skills through a series of projects, each aimed at preparing you for your major NEA (Non-Exam Assessment) project in Year 13. The projects are as follows:

- **Project 1:** Manufacturing Skills Builder This project will enhance your understanding of a wide range of materials and manufacturing processes through the production of an 'organiser' product. You'll also be introduced to computer-aided design (CAD) and how it supports the design process.
- **Project 2:** Design Movement-Inspired Audio Amplifier In this project, you'll explore key design movements and use them as inspiration for your own design concepts. You'll follow an iterative design process to develop a final product, incorporating electronics into your design.
- **Project 3:** 'Small Spaces' – Architecture and Innovation This architecture-focused project explores sustainable design and innovation in compact living. You'll investigate how to make the most of small spaces and be challenged to think creatively and "outside the box."

These projects are designed to give you the skills, experience, and confidence needed to succeed in your NEA—an independent project that you will choose, develop, and lead in Year 13.

Founded in Saxon Times, re-founded in 1555

Headmaster: Mr Jonathan M Webb, MA

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In preparation for the start of sixth form and to get an idea of what you can expect, a summer task has been create for you to get a feel for what lies ahead. [DT Transition Work](#)

The following resources will be needed for you to complete the work ahead

- Sketch Book
- Sketching equipment
- A3 Display/ Presentation Book (60 Pockets): [Ark A3 Display Book \(Presentation\) \(60 Pockets\)](#)
- [Design & Technology Product Design Revision Book](#) – Hodder education (ISBN 978-1-5104-3229-1)

We look forward to meeting you and seeing what you will create over the next two years.

Kind regards,

Mr Owen

Dead of Design and Technology

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