FURNESS ACADEMY

CURRICULUM OVERVIEW

ENGINEERING | YEAR 11

OCR Cambridge National Engineering Design

DESIGN • MAKE • EVALUATE

WHAT STUDENTS LEARN

AUTUMN TERM | SECOND NEA: COMPLETION

Students complete the second NEA started in Year 10.

SPRING TERM | NEA SUBMISSION AND JANUARY EXAMINATION

Students submit their second NEA and take the examination in January. Students requiring an NEA resit work on their response; unit content is revisited where a resit is required.

SUMMER TERM | RESIT PREPARATION

Where a unit resit is required, students revisit the relevant content.

KEY SKILLS DEVELOPED

DESIGN
Interpret briefs, research needs and communicate ideas.

DRAWING
Use drawing and CAD to develop design proposals.

MANUFACTURE
Understand materials, processes and engineering principles.

EVALUATE
Review solutions against the brief.

PROGRESSION & THEORY

Theory is taught alongside the NEA in both years. Students complete two NEA units; the order of the Making and Designing units rotates each year.

POST-16 PATHWAYS

Further study and careers in engineering, design and related industries, combining creativity with practical knowledge and real-world design skills.