YEAR 10 DESIGN AND TECHNOLOGY GCSE

KING JAMES'S SCHOOL
KNARESBOROUGH

Name: Teacher: Class:

During year 10 you will follow 4 different schemes of work:

ACTUAL NEA	**Practice NEA** (Trophy project)	**CAD/CAM** (Flat Pack Gift)	**Ergonomics** (Torch Redesign)

In this unit you will learn the ability to design a product taking account of the interaction with its intended user. We will design and manufacture a foam prototype to test the ergonomics of your design. Your design work will be sketched in 2D and rendered in Photoshop to look 3D.

CONTENT

Product Analysis

Ergonomic Design
Use of **Anthropometrics**
Inclusive design

Virtual rendering of design work

Health & Safety in the Work-shop

SKILLS

2D sketching

Photoshop tools:
-Layers
-Selection tools
-Brush tools

Shaping and finishing 3D shapes from Styrofoam

Showcasing design work via a design portfolio

Key Vocab:

Ergonomics	Bell Curve	Render
Antropometrics	Ergonome	Human Factors
Percentiles	Fit the user	Inclusive Design