Tarporley Sixth Form College

Product Design A Level

Programme of Study

Exam Board: EDUQAS

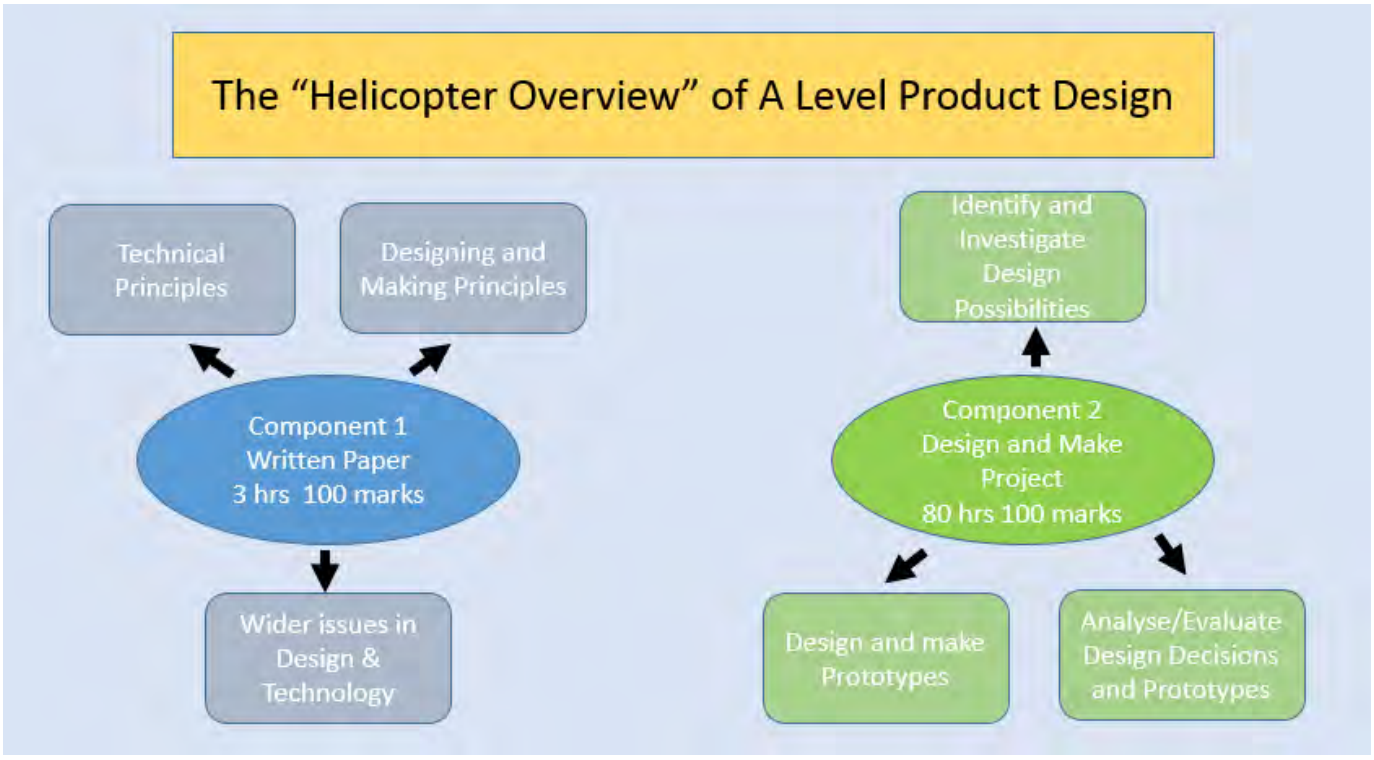
50% Examination

50% Non-examination

Controlled Project

Assessment

NAME:	
TARGET GRADE	
ASPIRATIONAL GRADE	



Your Assessment Objectives:

AO1 Knowledge	Identify, investigate and outline design possibilities to address needs and wants.
AO2 Application	Design and make prototypes that are fit for purpose.
AO3 Analyse and Evaluate	Analyse and evaluate – Design decisions and outcomes, including for prototypes made by themselves and others. Consider the wider issues in Design and Technology
AO4 Demonstrate	Demonstrate and apply knowledge and understanding of Technical principles Design and making principles

Top Study Tips:

Keep everything you design and make in your box file. You need to show evidence to the moderator at the end of the course, to justify the marks you are awarded.

Keep your theory notes organised, use file dividers to organise each topic. File your notes carefully each week – remember to date classwork so you remember the sequence of each lesson. This will make revision easier.

You will need to keep a small sketchbook with you at all times to collect ideas and note anything you see about Product Design. Looking at magazines and newspapers the internet. Visits to shops or galleries can be noted in your book as a record of what you have seen.

A Display Book to store cuttings and interesting articles.

A Flip File will be needed to store your NEA task.

Use your Worksheets to aid your revision.

For each unit you will get worksheets to support you with key topics. Use these to make cue cards – put the term on one side and the definition on the other - useful now and a great revision aid for later.

Type up class notes and add to them.

This is a great way to consolidate your knowledge, commit things to memory and make your knowledge deeper.

Keep revisiting work and topics

Don't simply file away and forget. Routinely to go over last term / year's work. Read around and use your sketchbook to be excited about all forms of design, as it is often in the news and constantly changing. You need to be aware of designers and their impact and developments in industry. Use Pinterest and Instagram to look for cool modern new designs and designers. Use the library or borrow books from the department.

Your Key Topics over the Course:

Topic	Key Content	Recommended Reading:
What is Good Design?	Recognising the attributes of a successful product. Classic and Iconic Designs.	Dieter Rams: Ten Principles for Good Design. Cees W. de Jong
Designing and Innovation	Principles of designing Research techniques Analysis and problem solving Ergonomics and Anthropometrics Generating and developing ideas Innovation Communicating ideas	BODYSPACE PB: Anthropometry, Ergonomics and the Design of Work Stephen Pheasant
Materials and Components	Classification of materials Working characteristics of materials Awareness of modern materials Material finishes Selection and use of components Safe working practices and hazards	Stuff Matters: The Strange Stories of the Marvellous Materials that Shape Our Man-made World Mark Miodownik
Processes	Hand methods of forming materials Machine methods of forming materials Combining materials to enhance them Computer Aided Manufacture CAM	AQA Design & Technology: Product Design (3-D Design) by Will Potts
Industrial and Commercial Practice	Manufacturing industry and employment Manufacturing systems Stages of production Manufacturing methods Management systems in industry Safe working practices.	
Product Analysis and Systems	Processes used when designing and manufacturing products Form and Function of products Social, moral and ethical influences Intellectual property and international standards Use of systems and subsystems Use of ICT in industry	AQA Design & Technology: Product Design (3-D Design) by Will Potts
Human Responsibility	Services to customers Product design legislation Standard risk assessment procedures Values inherent in product design Forms of energy used and its impact.	AQA Design & Technology: Product Design (3-D Design) by Will Potts
Public interaction – marketing and research.	Innovation Market research Selling. Product evaluation.	
Applying Core Knowledge, Understanding and Skills.	The Non Exam Assessment (NEA) developing a brief and an iterative approach to Design and Technology in the 21st Century.	

How your course is structured:

Year 12: Term 1

Introduction to the course What is Design?
Project 1- **Oriented Strand Board OSB "Design a chair"**

Assessment 1: Completed Chair.
Assessment 2: Timed exam questions from Eduqas exemplar questions.

Project 2 – Low voltage lighting design.
Focus on the Design Process and Iterative designing.
Classwork will be supported by set essay ho**mework's, revision questions**, tasks and presentations of research.

Assessment 3: Design Presentation for Project 2
Assessment 4: Timed exam questions from Eduqas exemplar questions.

Year 12: Term 2

Continuation of Project 2.

Introduction of the NEA task

Assessment 5: Timed exam questions –Designing and innovation
Assessment 6: Timed exam questions- Human Responsibility
Assessment 7: Mock Exams

Year 12: Term 3

NEA Task –Continuation of the NEA task which should be 80 hours in total.
Theory work

Ongoing – timed weekly exam practice / essay writing.

Year 13: Term 1

NEA Task –Continuation of the NEA task which should be 80 hours in total. Theory work

Assessment 1: Timed exam questions
Assessment 2: Timed exam questions

Year 13: Term 2

- Theory work industrial methods
- Submission of the NEA task

Assessment 1: Timed exam questions revision on industrial methods
Assessment 2: Timed exam
Assessment 3: Mock Exams

Year 13: Term 3

- Revision
- Timed exam practice

External exams
Ongoing – timed weekly exam practice