

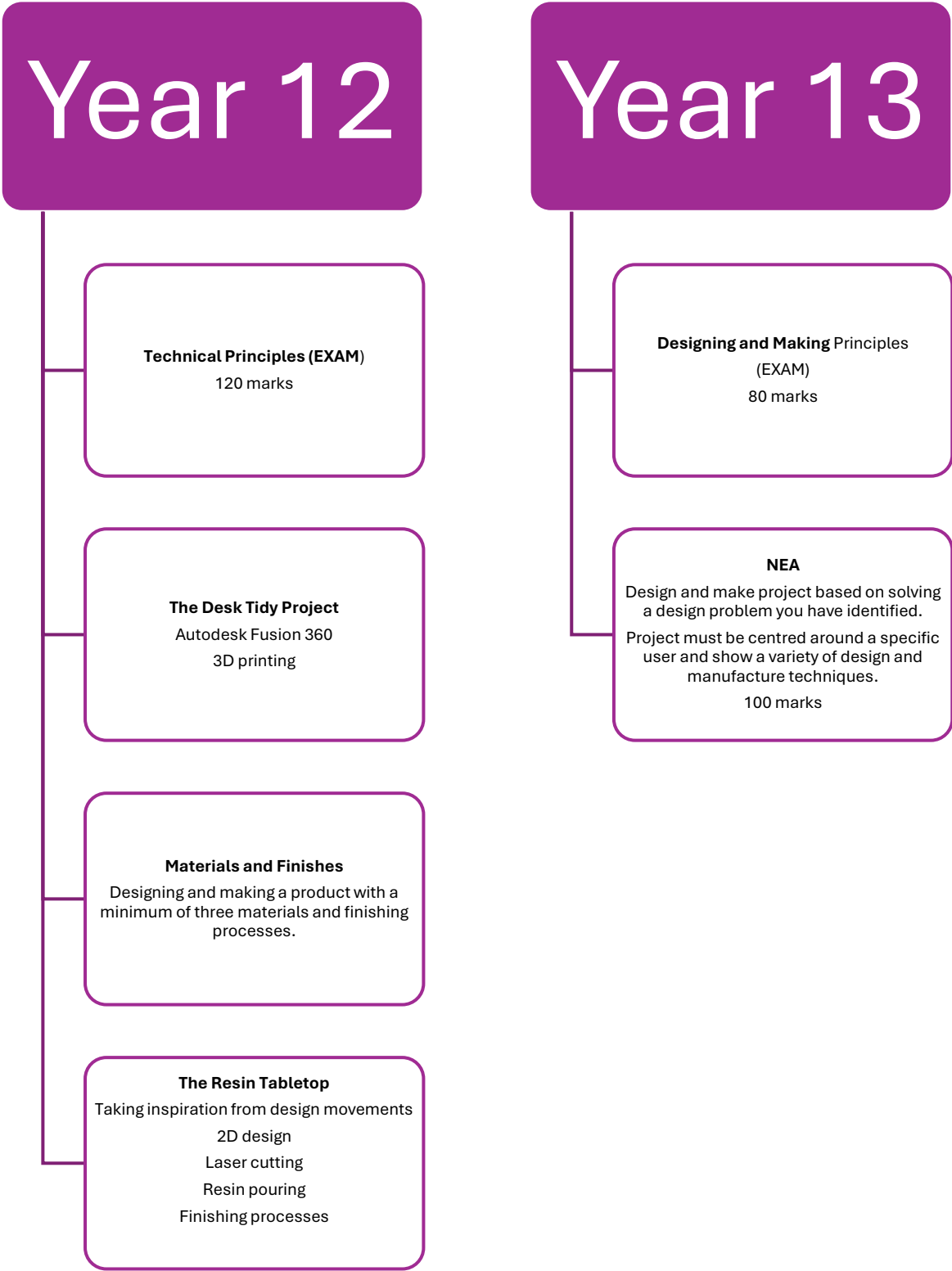


Transition Booklet



Product Design

Course Overview



Year 12 Product Design Transition Work

Transition to A-level Product Design Overview:

This course will engage you in both practical and theoretical study and encourage you to develop a broad view of design.

Product Design is both modern and relevant. You will learn about contemporary technologies, materials and processes, as well as established practices. There is an emphasis on understanding and applying iterative design processes using your creativity and imagination to design and make prototypes that solve real and relevant problems. During the course you will draw on and apply a range of skills and knowledge from other subject areas to inform their decisions in design and the application or development of technology.

The skills and knowledge you will gain are separated into two sections:

- 3.1 Technical principles
- 3.2 Designing and making principles

Further details of the subject content an overview can be found here:

[AQA | Design and Technology | A-Level | A-level Design and Technology](#)

Essential summer reading

Essential summer reading AQA AS/A-Level Design and Technology: Product Design Will Potts, Julia Morrison, Ian Granger, Dave Sumpner.

Throughout the course you will look at the physical and working properties of a wide range of materials and components so that you can develop an understanding of why they are used in different applications.

You will also consider their manufacture, use and life span of a product. Through manufacturing and design you will identify safe working practices and understand the various processes that can apply to a product.

You will then apply this knowledge to produce a physical prototype that communicates your research, design, practical work and evaluation to others.

This book can be purchased on Amazon for roughly £20 and will be used throughout year 12 and 13.

ISBN-10 : 1510432299

ISBN-13 : 978-1510432291



Assessment overview of the NEA

You will produce a substantial design, make and evaluate project which consists of a portfolio and a prototype. The assessment will be carried out under controlled conditions, as specified within the qualification's specification. The final prototype must be produced under immediate guidance or supervision.

The portfolio will contain approximately 40 sides of A3 paper (or electronic equivalent) There are five parts to the assessment:

- Section A: Overall 20 marks (Identifying and investigating design possibilities) Identification and investigation of a design possibility, investigation of client/end user needs, wants and values, research conclusions and practical primary research .
- Section B: Overall 10 marks (Design Brief & Specification) Identification and evidence of a clearly written Brief and Specification linking to previous research.
- Section C: Overall 25 marks (Development of Design Proposals) Design ideas, development of design idea, final design solution, review of development and final design and communication of design ideas.
- Section D: Overall 25 marks (Developing design Prototypes) Design, manufacture and realisation of a final prototype, including tools and equipment and quality and accuracy.
- Section E: Overall 20 marks (Analysing and Evaluating) Testing and evaluation.

A Level Product Design Useful Resources

 App, Magazine and website Website: https://www.wallpaper.com/	 Wallpaper Case Studies - Wallpaper* magazine is the world's number one global design publication, championing the best in art, architecture, interiors, fashion and contemporary lifestyle. This is an awesome tool that enables you to quickly pick a topic and flick through many a creative design with instant access to information about the design and the designer. Quick inspiration tool!
 website https://designmuseum.org/	 The Design Museum Collection - Presents remarkable objects from London's Design Museum; these key pieces from the collection are explored through film, audio, text and photographs. Search options include: time, material, colour, location, manufacturer and designer. Classic pieces include: the Anglepoise lamp, the Dyson vacuum.
 Website https://www.dezeen.com	 Dezeen - The world's most influential architecture, interiors and design magazine, packed full of video's and interviews with designers who deal with current issues. This helps with listening, reading and evaluating relevant and current product design.



Website

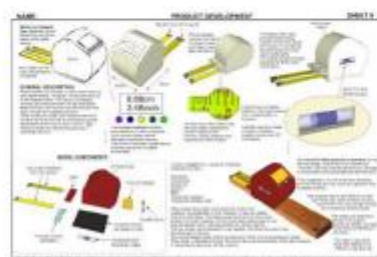
<https://mocoloco.com/>



MoCoLoco - is a web magazine dedicated to everything related to modern contemporary design and architecture.

Website:

<https://www.technologystudent.com>



Technology Student

A website with lots of free specific DT technical information.



Product Design App
(cost £0.99)



The application includes information and revision quizzes for Product Design as well as general guidance for coursework and controlled assessment tasks.

designWEEK

Design Week

<https://www.designweek.co.uk>



A weekly web-magazine on all things design. Has some great current case-studies.

Public

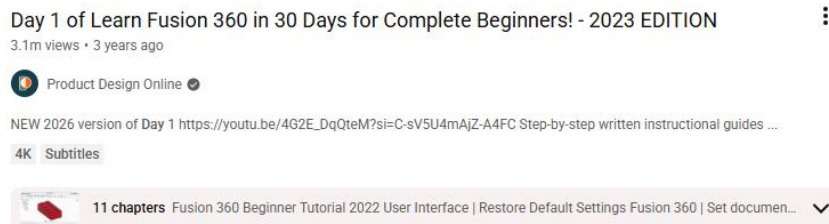
Summer Learning Project

During P16 Product Design you will heavily rely on the use of an industry standard CAD programme called Fusion 360.

During the P16 Transition session, Mr Lindsay will give you access (an educational license) so you can access this from home and in school.

Over the summer, we would like you to complete a series of YouTube tutorials called 'How to learn Fusion in 30 days'.

Simply type in the search bar 'how to learn Fusion in 30 days' and look for this channel.



Should you have any issues accessing Fusion from home, please still watch the tutorials and make notes on the tools and commands.

The first project you do in year 12 will be Fusion based. Don't worry if you still feel as though you need support, the main skills will be delivered to you in lessons.



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