# A level Product Design

## Course Overview:

A level Design and Technology: Product Design (3-D Design) helps students take a broad view of design and technology, develops your capacity to design and make products and appreciates the complex relations between design, materials, manufacture and marketing. As a 3D designer you are at the crossroads of a number of skills. You need creativity in order to imagine the shape and function of the object. But you'll also need to know about manufacturing processes, materials, historical, social, cultural and environmental influences on Design and Technology.

### TEACHERS SAY…

'Product Design is an enormously satisfying career. You have an idea and - with the use of modelling tools like clay or computers - it comes to life. Imagine how satisfying it must be for the person who designed the iPhone or Razr to hold the finished product in their hand'

**YOUR NOTES**

| First year of A level | Second year of A level |
|---|---|
| **Technical Principles:** Materials and their applications<br>Performance characteristics of materials<br>Enhancement of materials<br>Forming redistribution and addition processes<br>The use of adhesives and fixings<br>The use of finishes<br>Modern industrial practice<br>Efficient use of materials<br>Digital design and manufacture | **Designing and making principles:**<br>Design methods and processes<br>Design theory<br>How technology and cultural changes can impact on the work of designers<br>Product life cycle<br>Critical analysis and evaluation<br>Selecting appropriate tools, equipment and processes<br>Accuracy in design and manufacture<br>Responsible design<br>Design for manufacture and project management |

Non Exam Assessment (NEA), 50% of your marks.
You will complete a substantial design task to demonstrate your understanding of the practical application of core technical principles, core designing and making principles and specialist knowledge. This is done using your own design with a range of materials and processes. All internal assessments are externally moderated

**Throughout the A level you will develop and improve practical skills through a number of short projects.**

## Examination Board:

AQA

## Teacher contact:

**Mrs Russell**
**arussell@chichesterfreeschool.org.uk**

## Entry requirements:

Desirable Grade C or above in GCSE Design and Technology: Product Design. Grade 4 or above in English Literature and/or Language.
If a student has not taken GCSE Design and Technology, we would want to see evidence of creative/practical work.

## Type of Assessment:

Assessments will take the form of exam and non-exam assessments. Out of the 50% exam element a 2h30 paper covers technical principles accounting for 30% of your marks and a 1hr 30 paper covers designing and making principles accounting for the final 20% of your marks.

## This course goes well with:

English, History, Business Studies, Graphics, Art, Psychology, Photography

## Possible degree options:

There are a myriad of possible vocational and academic onward training routes. The top degree courses taken by students who have an A-level in Design and Technology are:

Architecture, Design Studies, Mechanical Engineering, Civil Engineering.

## What can I do now to help me prepare for my course?

Visit museums and galleries, including the Design Museum, Victoria and Albert Museum. Investigate your favourite designers by searching books and websites.
Teach yourself to use some of the many CAD programmes available, Auto desk and many others are free to students.

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| Www.aqa.co.uk | AS and A2 Student workbooks |
| Www.technologystudent.com | Revision resources |
| http://www.bbc.co.uk/education/subjects/ | Huge number of resources covering all topics found at GCSE and A level. |
| https://www.designmuseum.org | The design museum, keep up to date with trends. |
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**Literacy,** when you...

...read around the subject, and use several sources of information to answer problems.

**Numeracy,** when you...

...plan and design garments and products, calculate materials, use CAD/CAM, measure.

**ICT,** when you...

...research current theories, create presentations and complete assignments, use CAD/CAM.

## Possible Career options:

Studying an A-level Product Design related degree at university gives you all sorts of exciting career options, including:

Clothing/textile technologist
Colour technologist
Exhibition designer
Furniture designer
Industrial/product designer
Interior and spatial designer
Advertising art director
Automotive engineer
Graphic designer
Materials engineer
Product manager
Production designer, theatre/television/film
Purchasing manager
Stylist
Secondary school teacher.
Higher education lecturer

## Course Overview:

This creative and thought-provoking qualification gives students the practical skills, theoretical knowledge and confidence to succeed in a number of careers, especially those in the creative industries. They will investigate historical, social, cultural environmental and economic influences on design and technology, whilst enjoying opportunities to put their learning into practice by producing products of their choice. Students will gain a real understanding of what it means to be a designer, alongside the knowledge and skills sought by higher education and employers.

### TEACHERS SAY...

'Students have been able to study 'textiles' before of course, but this new A level will teach students about the origins of Yves Saint Laurent's Le Smoking jacket, at the same time as mastering a blind stitch. As well as learning textile techniques, students will touch upon the history of design, the commercial side of the industry and modern influences on fashion, including the impact of social media '

### YOUR NOTES

| First year of A level | Second year of A level |
|---|---|
| **Technical Principles:**<br>Materials and their applications<br>Performance characteristics of materials<br>Methods of joining and use of components<br>The use of finishes<br>Enhancement of materials<br>Modern industrial practice<br>Digital design and manufacture<br>Health and safety | **Designing and making principles:**<br>Design methods and processes<br>Design theory<br>How technology and cultural changes can impact on the work of designers<br>Design Processes<br>Critical analysis and evaluation<br>Selecting appropriate tools, equipment and processes<br>Accuracy in design and manufacture<br>Responsible design<br>Design for manufacture and project management |

Non Exam Assessment (NEA), 50% of your marks.
You will complete a substantial design task to demonstrate your understanding of the practical application of core technical principles, core designing and making principles and specialist knowledge. This is done using your own design with a range of materials and processes. All internal assessments are externally moderated

**Throughout both the AS and A-level you will develop and improve practical skills through a number of short projects.**

# A level Fashion and Textiles

**Examination Board:**

AQA

**Teacher contact**:

**Mrs Russell**
**arussell@chichesterfreeschool.org.uk**

**Entry requirements:**
Desirable Grade C or above in GCSE Design and Technology: Product Design. Grade 4 or above in English Literature and/or Language.
If a student has not taken GCSE Design and Technology, we would want to see evidence of creative/practical work.

**Type of Assessment:**
Assessments will take the form of exam and non-exam assessments. Out of the 50% exam element a 2h30 paper covers technical principles accounting for 30% of your marks and a 1hr 30 paper covers designing and making principles accounting for the final 20% of your marks.

**This course goes well with:**
Science, Maths, Art and Design,

**Possible degree options**:
There are a myriad of possible vocational and academic onward training routes.

Degree courses include: Fashion and Textiles, Textile design, Textile and surface design, Fashion with business studies, Fashion design.

## What can I do now to help me prepare for my course?

Visit museums and galleries in central London, including the V and A Dress collection and Fashion and Textile Museum. Decide you favourite fashion designer by searching books and websites eg. **50 Contemporary Fashion Designers** You Should Know by Doria Santlofer (ISBN: 9783791347134) or websites such as http://www.style.com/

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| Www.aqa.co.uk | A level Student workbooks |
| Www.technologystudent.com | Revision resources |
| http://www.bbc.co.uk/education/subjects/ | Huge number of resources covering all topics found at GCSE and A level. |
| https://www.vogue.co.uk/ | The industry magazine , keep up to date with trends. |
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**Literacy,** when you...

...read around the subject, and use several sources of information to answer problems.

**Numeracy,** when you...
...plan and design garments and products, calculate materials, use CAD/CAM, measure. ratios, pattern drafting, data.

**ICT,** when you...

...research current theories, create presentations and complete assignments.

Possible career options:

Any creative related career such as:

Fashion design
Theatrical design
Advertising and marketing
Interior design
Fashion journalism
Photographic stylist
Magazine editor
Brand management
Fashion buying/merchandising
Fashion graphics
Textiles and garment technology
Designer
Fashion technology