

THE PRIORY ACADEMY

LSST

Sixth Form Induction Day

Product Design Taster Session



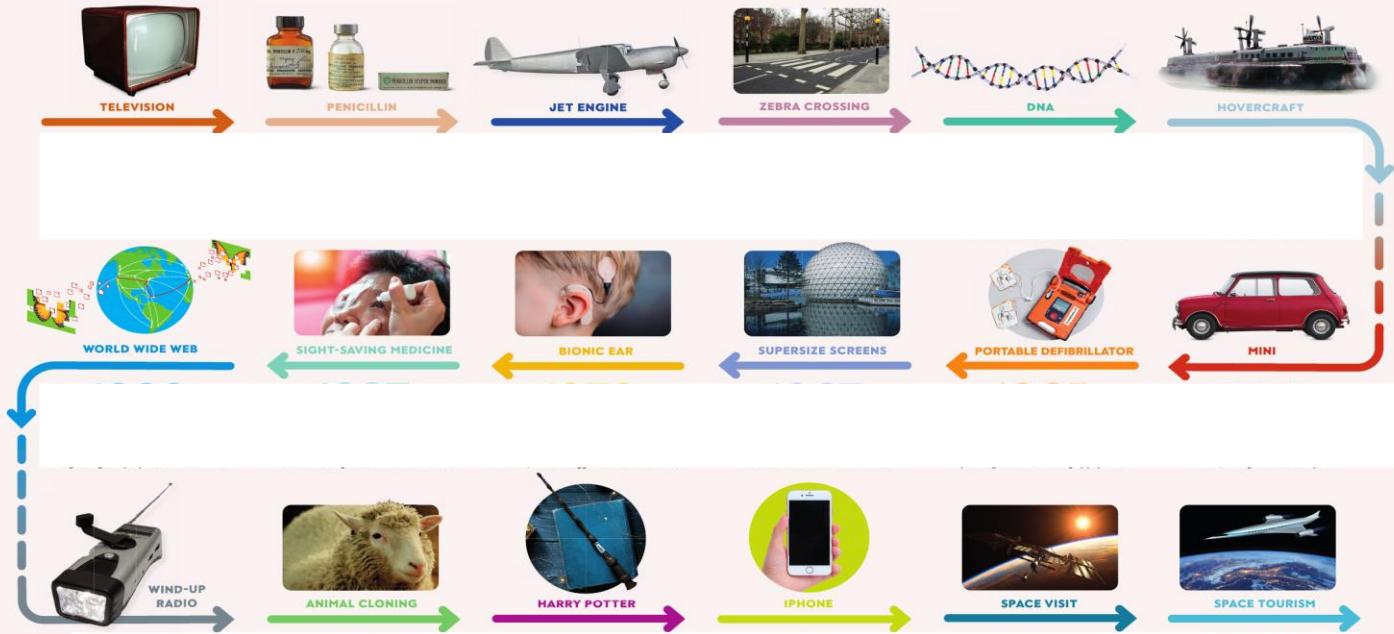
Starter Activity

Can you name the designer/ inventor and/or the year of the invention?



A CENTURY of INVENTION

This timeline shows some incredible inventions and achievements by creative geniuses from the UK and Commonwealth countries during The Queen's lifetime.



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1928-2012
Timeline
invention



Assessment



Exam Paper 1
Technical Principles

2 ½ hours
Short & extended response

120 marks 30%

Exam Paper 2
Designing & Making Principles

1 ½ hours
Product analysis (short answer – 30mks)
Commercial manufacture (short/extended 50 mks)

80 marks 20%

NEA (Non Exam Assessment)

Design portfolio & photographic evidence of final
prototype.

100 marks 50%



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Course Structure



- **The Basics...**
- Exam Board - AQA
- Assessment - 50% written exam/ 50% NEA
- No. Exams 2 x (1x2hr30min and 1x1hr30min) exams, end of Y13
- NEA In year 13 -45hrs single substantial design and make task. The portfolio should have photographs illustrating the making of the final product.
- Y12 - Articulating lamp (workshop based) and Childs Chair (CAD/CAM based) both subject to confirmation.....
- Begin NEA major project in Y12 (45 x A3 pages max)



NEA coursework Folder

- Some of you will have already experienced this at GCSE level , the structure is similar (although more detailed).
- Context choice is very much more of an individual decision (it can make all the difference if you choose well)
- You will begin this in module 3 or 4 of Year 12.
- To be successful it is critical to follow the structure that the exam board expect to see and aim to complete each section to a very high standard.
- [AQA | A-level | Design and Technology: Product Design | Scheme of assessment](#)



Examination

- Split into 2 papers, 1x2hr30min and 1x1hr30min
- Paper 1 – Technical principles 2hr30min
- Paper 2- Designing and Making Principles
- Knowledge for these built from
- Weekly theory lessons
- Practical experience
- Independent (self motivated) reading/experience
- With both coursework and exam you will get out what you put in!



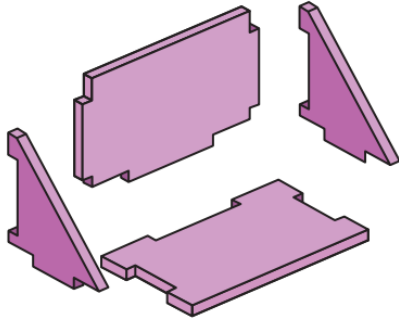
Example work review

- Your chance to see past examples of NEA and Examination tasks
- Past student's exemplar folder
- [NEA - Guitar stand LW.pdf](#)
- [Product Design Coursework joe giles 2022-23.pdf](#)



Something to make you think....

Fabricated Acrylic component



1

FIGURE 1 shows the dimensions of the components required to produce FIGURE 2.

The component parts are cut from a 90 mm × 70 mm × 3 mm sheet of acrylic.

Calculate the percentage (%) of waste from the acrylic sheet.

Describe the purpose of risk assessment in a manufacturing environment. [6 marks]



Concrete table tennis table

Explain why concrete is a suitable material for the manufacture of the outdoor table tennis table shown in FIGURE 5. [6 marks]

