Design Technology

Product Design and Textiles

GCSE Design Technology

Morecambe Bay
Academy

GCSE

Design Technology

Product Design and Textiles

What is GCSE Design Technology?

Through studying GCSE Design and Technology, learners will be prepared to participate confidently and successfully in an increasingly technological world; and be aware of, and learn from, wider influences on design and technology, including historical, social/cultural, environmental and economic factors.

GCSE

Design

Technology

WJEC GCSE Design Technology

Course breakdown

- The subject content is presented under two headings: technical principles and designing and making principles.

Core knowledge and understanding:

- design and technology and our world
- smart materials
- electronic systems and programmable components
- mechanical components and devices ▪
- materials

In-depth knowledge and understanding:
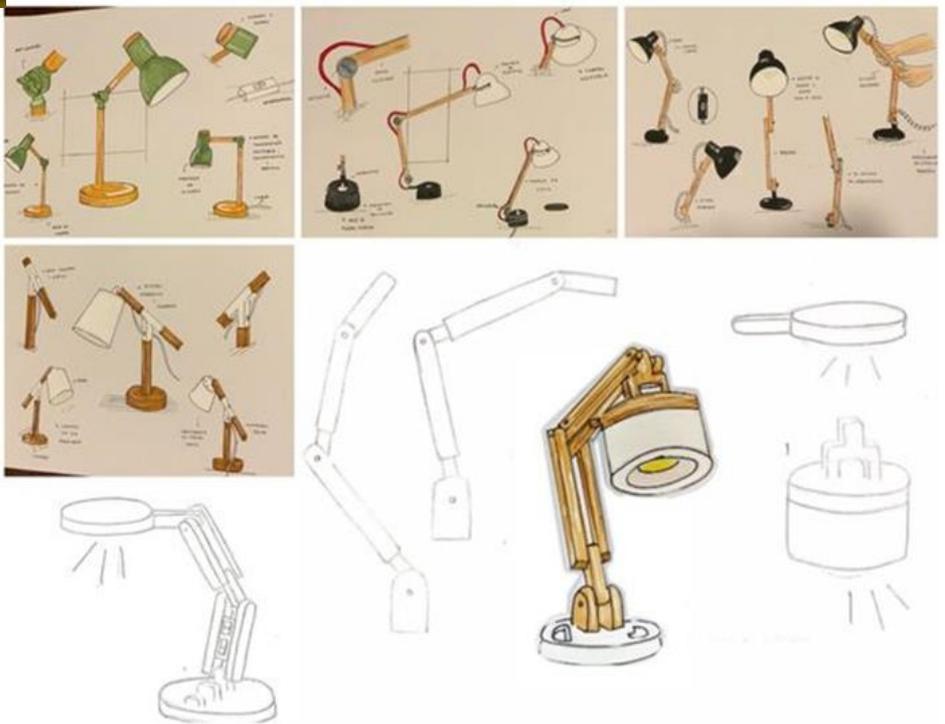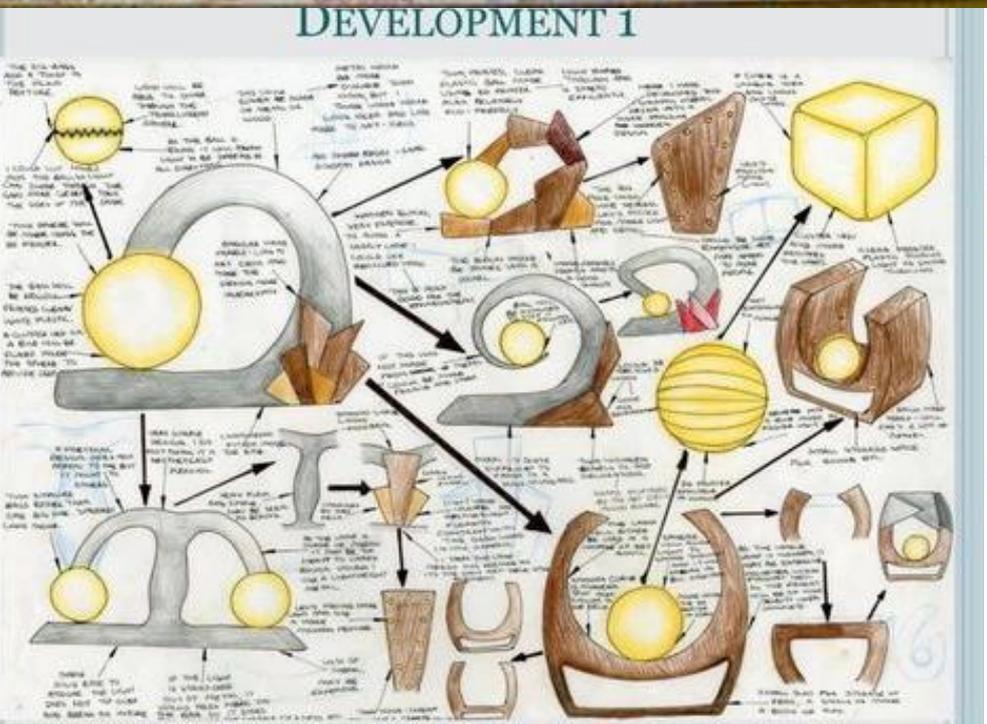
electronic systems

papers & boards

natural & manufactured timber

ferrous & non-ferrous metals

thermoforming & thermosetting polymers
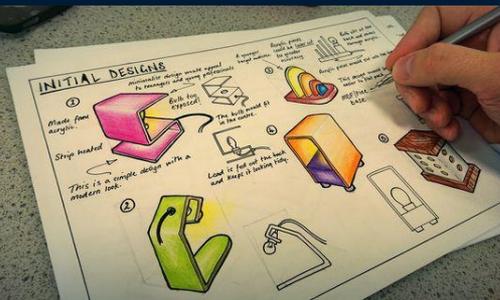
fibres & textiles

development of ideas

illustrations

illustrations

DEVELOPMENT 1

Designing and making principles

- Understanding design and technology practice
- Understanding user needs
- Writing a Design Brief and Specification.
- Investigating challenges
- Developing ideas
- Investigating the work of others
- Using Design Strategies
- Communicating Ideas
- Developing a prototype

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Product Design and Textiles

In-depth knowledge and understanding

- selecting and working with materials and components

- marking out

- using tools and equipment

- using specialist techniques

- using surface treatments and finishes

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How will you be assessed?

Component 1:

Design and Technology in the 21st Century Written examination

2 hours 50% of qualification

- A mix of short answer, structured and extended writing questions assessing candidates' knowledge and understanding of:

- Technical principles

- Designing and making principles

- Analyse and evaluate design decisions and wider issues in design and technology.

Component 2:

Design and make task Non-exam assessment:

35 hours 50% of qualification

A design and make task, based on a contextual challenge set by WJEC.

- Identify, investigate and outline design possibilities

- Design and make prototypes

- Analyse and **Evaluate** design decisions and wider issues in design and technology.

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Post 16

Construction
Engineering
Fashion Design
Product Design
Graphic Design
Textiles Design
Carpentry and Joinery
Textiles Technology
Interior Design
Furniture Design

Careers in Design Technology

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