

RAISING ACHIEVEMENT





Some background....

Assessment for the course is split between:

- The NEA (project)
- The written exam

Both are worth 50% of the GCSE





....more background....

The **content** of the subject is taught in 3 sections:

- 1. The core technical principles
- 2. The specialist technical principles
- 3. Designing and making principles

This is where the Textiles and Product Design divide happens students following the Textiles specialism have learned about textiles materials in greater depth

<u>The core</u>

- New technologies
- Energy
- New materials
- Systems approach
- Mechanical devices
- Introduction to all materials

<u>The specialism</u>

- Selecting materials
- Forces and stresses
- Ecology
- Sources
- Using materials
- Stock forms
- Scale of production
- Specialist techniques
- Surface finish

Designing and making

- Investigation
- Environment, social, economic
- The work of others
- Design strategies
- Communication of designs
- Prototype development
- Selection of materials and tools
- Tolerances
- Materials management
- Specialist tools
- Specialist techniques





NEA (project) worth 50% of the GCSE

Project tasks	NEA marks
Research	10
Design brief and specification	10
Generating ideas	20
Developing ideas	20
Realising ideas	20
Analysing and evaluating	20
TOTAL	. 100





Written paper

Section and style of question	% of the GCSE
A - Core 10 multiple choice marks and 10 marks for short answer questions	10%
B - Specialist Longer answer questions	15%
C - Designing and making principles Mixture of short and longer answer questions	25%





Exam questions - long answer

The product - a powered, adjustable reclining chair.

Analyse and evaluate this product, considering how effective this design might be for use in a hospital waiting room.



8 marks available









How would the 8 marks be awarded?

It's not just 8 features of the chair

Analyse - this part of the question requires students to show some understanding of how the chair would 'work' in the hospital waiting room by using their design strategy knowledge - ergonomics, working environment, materials selection, safety etc

They could look for features that would work well and some that wouldn't - and explain why.







How would the 8 marks be awarded?

Evaluate - for each of the points that students raise about the chair they can make a judgement about whether it's a good thing or a bad thing or even both!

They can then 'finish' the question with a concluding judgement.







How would the 8 marks be awarded?

<mark>positive</mark>	negative
Comfortable lift idea for elderly / poorly people - might make them feel <mark>safe/cared</mark> for/relaxed	Shape might not be easy to keep clean because of grooves - cleaning in hospitals is really important to reduce infections spreading
Material might be <mark>easy to</mark> <mark>clean</mark> as it has a <mark>shiny</mark> surface - <mark>hygiene importan</mark> t - stops infection	Takes up a lot of room where most waiting rooms have smaller plastic chairs - can't get many people sat in waiting room

Nice for comfort but impractical size, cost etc





Make practice questions! <u>Products</u>













5 things to raise achievement in D&T

- 1. **Get the NEA finished!** completing all sections of the NEA including the evaluation section is really important there are good marks available in each section
- 2. **Do ¹/₂ an hour!**.....

3. Use the resources:

- a. quick questions on the cards
- b. Use the 2, 3 and 4 mark questions in the workbook
- c. Use the past papers and mark schemes to practice longer answer questions
- d. Seneca online for just going over the content
- 4. **Wallpaper** (read, reduce, write colour code topics positioned on the wall)
- 5. **Question what's around you** pick up products think about what people need listen to the news

