

## Overview of Autumn Term – 2nd Half

In lessons the students will be studying 2 main sections of the CORE element of this GCSE.

1.4 Smart and composite materials, and technical textiles

1.8 Categorisation of ferrous and non-ferrous metals

1.9 Papers and Boards

The following areas will be covered in depth:-

- Modern and smart materials
- Composites
- Technical Textiles
- Ferrous metals and their uses
- Non-ferrous metals and their uses
- Properties of metals
- Different types of papers and boards – their properties and their uses
- Students will also complete a practical task at the end of the half term to extend their embellishment skills.

### Exam Board – Edexcel

<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/design-and-technology-2017.html>  
<https://www.bbc.com/bitesize/subjects/zvg4d2p>

## Homework Task 1 Product Analysis

Using the resources provided please complete a full product analysis of the products shown. Include both Life cycle information and awareness of new and emerging technologies in the manufacture of these products.

N.B. Any exam content relating to the CORE areas of this subject are related to all product manufacture and not restricted to textile items.

## Homework Task 2 Exam style question – Composites

Please use the exam style question sheet given out in class and answer fully using fully sentences and subject specific terminology.

## Homework Task 3 Exam style question – Technical Textiles

Please use the exam style question sheet given out in class and answer fully using fully sentences and subject specific terminology.

## Homework Task 4

### Exam style question – Product Evaluation Task

Please use the exam style question sheet given out in class and answer fully using fully sentences and subject specific terminology.

## Homework Task 5

### Exam style question - – Paper and Board Packaging

Please use the exam style question sheet given out in class and answer fully using fully sentences and subject specific terminology.

## Homework Task 6 – 2 weeks Research Task – Embellishment research.

Choose one of the techniques on the resource sheet provided and present your findings to the rest of the group.

## Homework Research Tips!

Use Google imagery research wisely. Be precise in your searches using 3 or 4 word descriptors if possible For example :- 'hotel spa cushion' instead of just 'cushion'.

When you see an image you really like look at the site it has come from – it may lead you to other relevant images.

For questions relating to work completed in class you may photocopy your class notes to help you!

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In lessons the students will be completing the Design Development section of their NON-EXAMINED ASSESSMENT. (NEA) They will research the construction and embellishment skills that they have considered in their design work and through evaluation of this work will ensure that they are able to produce a final outcome that meets both their chosen Design Brief and the needs of the user.

The mark that they ultimately get for this folder and practical outcome will be sent to the exam board count as 50% of their GCSE grade.

It is vital that students take account of the marking criteria and the deadlines set for each of the NEA tasks set.

Homework tasks set this half-term will both support their NEA and function as revision for their FINAL EXAM in the Summer Term.

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### Homework Task 1 1-3 weeks covering exam period and one week after

NEA Focused Homework – Design Development Research 3 decorative techniques or style details applicable to your design ideas.

- Examples of this technique
- Instructions on how to do technique or style detail
- Information on materials including costings

### Homework Task 2 Exam Revision Link – Revisions of Fibres and Fabrics Focus Part 1.

Natural and man-made fibres. Woven and non-woven fabrics and their uses.

Resource sheet to be provided.

### Homework Task 3 Exam Revision Link – Revisions of Fibres and Fabrics Focus Part 2.

Resource sheet to be provided. Components and fastenings

### Homework Task 4 Exam Revision Link – Revisions of Fibres and Fabrics Focus Part 3

Embellishment and fabric finishes

### Homework Task 5

NEA Focused homework  
 Costings and materials  
 Complete preparation for completion of your final outcome using guidance provided.

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When you see an image you really like look at the site it has come from – it may lead you to other relevant images.

Save anything that interests you – it may be useful for a later task in your folder.