

Design & Technology

Module 1

Topic Title:

NEA - research, design brief, specification and design ideas

Brief Summary of Content Studied:

Iterative process so the learning activities will be directed by the student and will depend on their project

Understand how the environment, social and economic challenges influence designing

Understand how investigating the work of other designers and design companies can inform designing

Know how to write a design brief and specification

Knowledge Organiser:

<https://docs.google.com/presentation/d/1TYTosKPxD.JjmfAHLqyvVTAmYlyDliYxMtod55kIO3Wg/edit?usp=sharing>

Module 2

Topic Title:

NEA - research, design brief, specification and design ideas

Brief Summary of Content Studied:

Understand how the environment, social and economic challenges influence designing and making

Be able to use a range of design strategies to help produce imaginative and creative design ideas

Understand how to explore and develop design ideas

Understand how to develop, communicate, record and justify design ideas

Be able to critically evaluate prototypes and suggest modifications

Know how to design and develop a prototype in response to clients wants and needs resulting in a manufacturing specification

Knowledge Organiser:

<https://docs.google.com/presentation/d/1TYTosKPxD.JjmfAHLqyvVTAmYlyDliYxMtod55kIO3Wg/edit?usp=sharing>

Module 3

Topic Title:

NEA- Design ideas and prototype development

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Brief Summary of Content Studied:

Be able to select and use materials and components appropriate to a specific task.
Understand how functionality, availability and cost affect the selection of materials and components.
Be aware of how design adaptations and use of tessellation can save time and materials.
Understand the value of using measurement and marking out to create an accurate and quality prototype.
Be aware of relevant health and safety issues when using specialist tools, equipment, techniques and processes to protect themselves and others from harm.
Understand how to select and apply appropriate surface treatments and finishes on a range of surfaces.
Know how to prepare different surfaces for treatments/ finishes.

Knowledge Organiser:

<https://docs.google.com/presentation/d/1TYTosKPxD.JjmfAHLqovVTAmYlyDliYxMtod55kIO3Wg/edit?usp=sharing>

Module 4

Topic Title:

NEA - final product, making diary and evaluation

Brief Summary of Content Studied:

Be able to select and use materials and components appropriate to a specific task.
Understand how functionality, availability and cost affect the selection of materials and components.
Be aware of how design adaptations and use of tessellation can save time and materials.
Understand the value of using measurement and marking out to create an accurate and quality prototype.
Be aware of relevant health and safety issues when using specialist tools, equipment, techniques and processes to protect themselves and others from harm.
Understand how to select and apply appropriate surface treatments and finishes on a range of surfaces.
Know how to prepare different surfaces for treatments/ finishes.

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Module 5

Topic Title:

EXAM Preparation

Brief Summary of Content Studied:

Pupils will spend the remaining lessons revisiting key topics to prepare for the exam. The main focus will be on material properties and applications for all pupils, **However each pupil will have a individual revision action plan based on QLA data.**

Knowledge Organiser:

<https://docs.google.com/presentation/d/1TYTosKPxD.JjmfAHLqovVTAmYlyDliYxMtod55kIO3Wg/edit>

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Module 6

Knowledge Organiser:

<https://docs.google.com/presentation/d/1TYTosKPxDJmfmAHLqyVTAmYlyDliYxMtod55kIO3Wg/edit?usp=sharing>