Subject Learning Journey - D&T



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NEA:
Design
Development
cont.

Technical principals

NEA: Planning for manufacture NEA: Manufacture of final prototype Designing and making principals

NEA: Manufacture of final prototype NEA: Testing and evaluation

Revision for Final exam



NEA: Design Development

NEA: Research and Analysis Enhancement of materials, processes, finishes and commercial practice

Materials and their application

Introduction project:
Chairs

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Revision for Final exam

NEA: Testing and evaluation of final prototype

NEA: Manufacture of final prototype NEA: Planning for manufacture

NEA: Development of ideas

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New and emerging technologies

Energy, materials, systems and devices

Materials:
Timber, Metals.
Polymers,
And
Paper/Board
Textiles

Common specialist technical principles

Timber as a Designing specialist material rinciples

Making principles

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NEA: Research and Analysis NEA: Design brief and Specification

NEA: Generating initial ideas

Soldering, Vacuum forming Construction

Interactive elements.Isometric drawing

Circuit simulation. Flowcharts

Reading resistors colour codes. Binary, Boolean and logic gates Role of electricity, components,circu its, inputs and outputs



Testing and evaluating

Specialist tools, equipment and techniques for making

Toys as a promotional tool. Design brief and drawing in 3D

Hardwoods and softwoods

Levers, Linkages and CAMsmechanical advantage



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Material properties, sources and origins

Innovations in materials and sustainability.

Material stock forms and tolerance

Prototype development. Using and working with materias Specialist tools, equipment and techniques for making

Testing and evaluating

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Types of Motion