



JOURNEY DIAGRAM - DT - KS4

Year
10

Autumn 1

Autumn 2

Spring 1

Spring 2

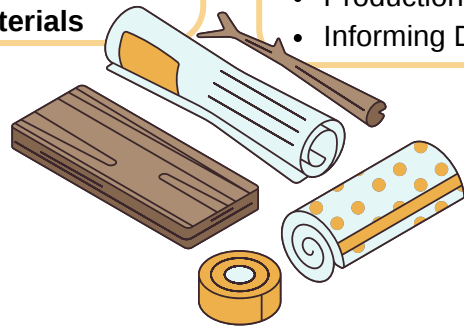
Summer 1

Summer 2

Unit 3: Materials

- Papers and Boards
- Timbers
- Metals
- Polymers
- Textiles

Unit 5: Timber Based Materials

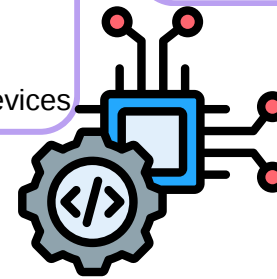


Unit 1: New and Emerging Technology

- Industry and Enterprise
- Sustainability and the environment
- People, Culture and Society
- Production Techniques
- Informing Design Decisions

Unit 2: Energy, Materials, System and Devices

- Energy Generation
- Energy storage
- Modern Materials
- Smart Materials
- Composite Materials
- Systems approach to Designing
- Electronic Mechanical Devices



Unit 4: Common Specialist Principles

- Forces and stresses
- Improving functionality
- Ecological and Social Footprint
- The 6R's
- Scales of Production

Unit 6: Designing Principles

- Investigation of primary and Secondary data
- The work of others
- Design strategies
- Communication of Design ideas

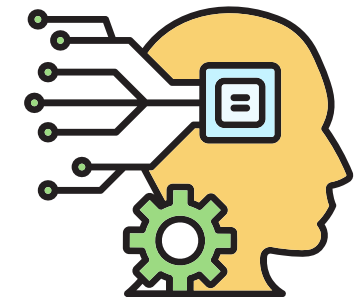
Unit 7: Making principles

- Selection of materials and components
- Tolerances
- Material Management
- Tools and equipment
- Surface treatment and finishes

NEA:

Section A:

- Design context
- Product Analysis
- Target user research
- Section B:
- Design brief
- Specification



Year
11

Summer 2

Summer 1

Spring 2

Spring 1

Autumn 2

Autumn 1

Revision for final exams

NEA: Section F:

- Testing
- Specification Evaluation
- User Evaluation
- Further developments

Final NEA submission
Easter Holiday

Theory:

- Revision for final exams

NEA:

- Section E continued.

Theory:

- Preparation for Mock exams



NEA:

Section D:

- Design development
- CAD development
- Manufacturing Specification
- Cutting List

Section E:

Prototype Development
Making diary

NEA:

Section C:

- Concept Design
- Initial Design ideas
- Modelling
- CAD

Theory:

Preparation for Mock exams

