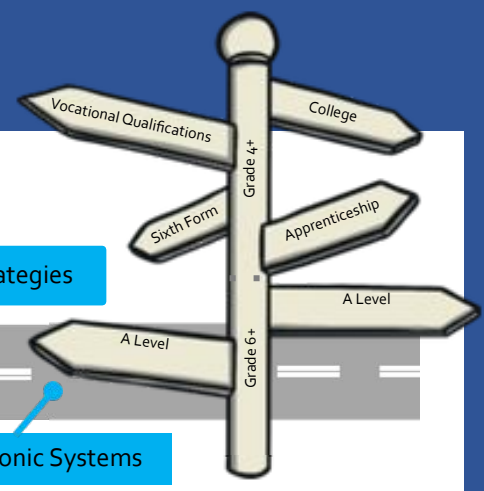
Buckler's Mead Academy Food, DT and Textiles Learning Journey



D&T

- Energy Generation and storage
- Mechanical systems
- Computer based tools
- Exploring and developing ideas
- Briefs and specifications
- Communication of ideas
- Ecological, environmental and social issues
- Design Strategies
- Research and investigation
- The work of others
- Electronic Systems
- Properties of materials
- Classification of materials
- Working with materials
- New and emerging technologies
- Design development and realisation
- Prototype development
- Scales of manufacture
- Manufacturing processes
- Modelling design ideas

ENGINEERING

- Interpretation of an engineering brief
- Research into engineering products to investigate materials for the product, manufacturing processes and manufacturing skills
- Classification of engineering organisations (including specialists) and the products each sector may produce
- Manufacturing processes such as cutting, shaping, forming and joining/fabrication processes
- Engineering drawings including 2D, 3D and computer aided designs
- Producing a design specification
- Safe use of tools and equipment
- Completing and following risk assessments
- Data collection and analysis
- Understanding of the engineering functions that are common to engineering organisations
- The design process
- Consideration of safe working and the need for safety both in the design and manufacture of engineering products
- Modelling design ideas
- Classification and properties of materials
- Understanding the role of an engineer

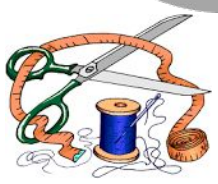
Food Preparation & Nutrition

- Understand different cultures, cuisines and diets
- Food Science
- Food choice - cultures, meal options & recipe-kits
- Diet through life
- Principles of food hygiene and safety.
- Food preparation and cooking techniques
- Labelling, availability, traceability
- Food spoilage, preservation and additives

Urban Life

Textiles

- Reflecting on their own work and that of others
- Design development
- Refinement and recording of ideas
- Drawing and mark making skills
- Select appropriate materials and processes
- Technical and experimental ideas
- Observational drawing and annotation skills
- Natural Forms
- Independent research and investigation



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