

# KS3 Design Technology Learning Journey



**Food Practical**  
Explore your culinary skills by planning and making dishes such as fresh pasta, cottage pie, samosas, lasagne and Victoria sponge.

**Textiles Upcycling Revolution: : It's all a load of Rubbish-**

Make something useable from of a discarded item



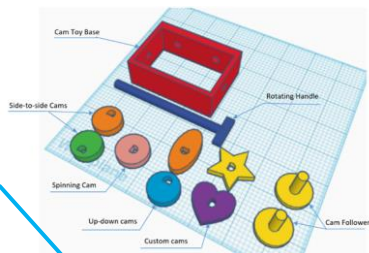
**Product Design- Passive Amplifier Project**

Make and modify your own passive amplifier speaker for your mobile phone



End of KS3 Test Progression to GCSE 9-1 Design Technology, L2 Engineering, L2 Textiles, L2 Graphics, L2 Construction

**Mechanisms.** Explore the power of linkages, CAMs, gears and levers through designing and making CAM toys and linkage puppets



**Evaluation:** Evaluation and improvements to the functionality and aesthetics of the products

**Year 9 lesson structure**  
Move around the department on a carousel cycle – You will visit Food, Textiles and Product Design throughout the year, giving you a great taste of things to come in KS4

YEAR 9

CREATIVITY

IDEAS

INNOVATION

**Nightlight: Making skills**  
Logo, branding and packaging

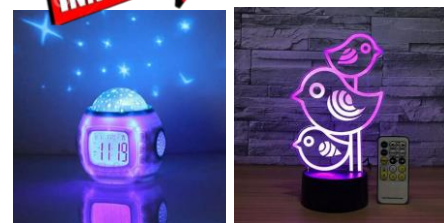
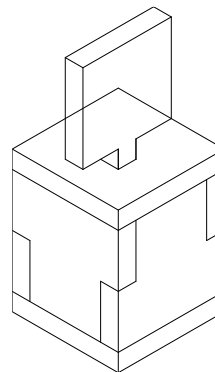
**Nightlight: Making skills**  
CAD/CAM, hand tools, laser cutter, circuits, soldering



CAD DRAWING

**Design**

Produce design ideas & technical drawings to help you plan, both by hand and by CAD



**Nightlight: Working to a design brief**  
Research, design and develop a working nightlight using wood, plastics and electronics.

**Nightlight: Make Tasks**

Put your design ideas into practice using a range of materials, new tools, equipment and techniques.

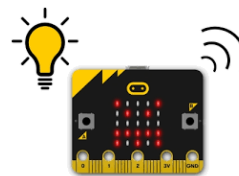
**Stitch a Selfie:**  
Drawing with Stitch- Turn your selfie into an embroidered piece of Textiles.

YEAR 8

**Mechanisms -Pop-up Card**  
Explore paper engineering and mechanisms



**Control Systems:**  
Microcontrollers and embedded intelligence

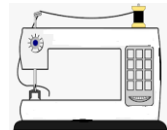


**Evaluate your outcomes**

Modifications, further developments and improvements

SUSTAINABILITY

**New Techniques**  
Computer Aided Design, mechanisms and linkages, machine skills, pattern cutting, transfer printing, tie-dye, laser cutting.



CAD CAM Embroidery

**Sustainable Design 'Bag For Life'**  
Design a reusable shopping bag



YEAR 7

**Graphic Design**  
An introduction to graphics – colour, typography, logos, branding

**Control Systems:**  
Using Technology to control the world around us



**Scrappy Circuits**  
Making electrical circuits from scrap materials

**Make Task**  
Bring your designs to life using a range of materials, tools, equipment and techniques to create a prototype of your idea.



Responsible designers, sustainability, materials and biomimicry.

**Design Task**  
Design and communicate your ideas through sketching and annotation

Workshop health and safety

**Introduction**  
What is Design Technology? Career pathways and the industry

CRITICAL THINKING

