

# Key Stage 3 Learning Journey

Design and Technology

Learning Journey



Design, develop of own brand and logo based on a design brief.



Use of graphics software to develop product branding.

**Design and make (DMA) project lighting .** Links to resistant materials (timbers/polymers) electronics and CAD/CAM.



Manufacturing of light housing and circuit.



Ongoing - Exam theory techniques and command words.

**Year 9**



Evaluation of progress and end of unit assessment.



Manufacturing using hand-tools and machinery including CAM (laser cutter).

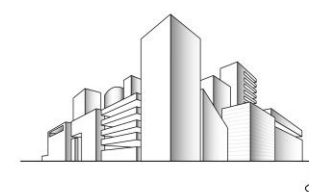
Revisiting CAD (2dDesign) to create light design.

Task analysis, timber joints, processes and finishes.

Research into branding and logo awareness.



Generating design idea (plan drawings) and development tasks.



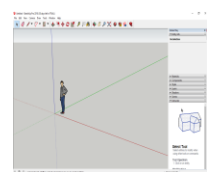
Baseline assessment including, sketching, presentation and health and safety.

**YEAR 8**



**Introduction to the Department**  
Revisit what design & technology is?  
Links to future GCSE options, career paths and Industry.

**Design and development project Architecture.** Links to research, drawing styles, design and development (CAD and physical).



Introduction to C.A.D. Use of SketchUp for Schools to create interior and exterior building designs.

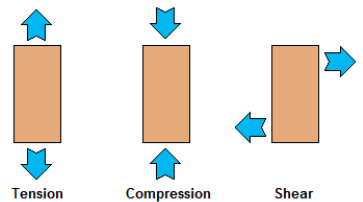
Evaluation and end of unit assessment.



Physical models. Use of prior pop-up/mechanisms knowledge.

# Key Stage 3 Learning Journey

Design and Technology  
Learning Journey



Design, develop and make a final solution using knowledge of movement.



Evaluation and end of unit assessment.

**Design and make (DMA) project Sustainability.** Links to resistant materials (polymers), CAD/CAM.



Developing knowledge of resistant materials properties.

Ongoing - Exam theory knowledge and command words.

**Year 8**

Evaluation of progress and end of unit assessment.



Manufacturing using hand-tools and machinery including CAD/CAM.

Experimenting in CAD.

Task analysis, materials research of thermoforming plastics



Paper Engineering: Mechanisms used in pop up cards.



**Design and make (DMA) project Pop up cards.** Links to graphics- colour typography and logos knowledge.

Evaluation and end of unit assessment.



Manufacturing diary to record practical progress.

Finishing products to a high quality.

Generating design ideas and development tasks.



Baseline assessment including, sketching, presentation and health and safety.

**YEAR 7**

**Introduction to the Department**  
What is design & technology?  
Links to future GCSE options, career paths and Industry.

**Design and make (DMA) project Keyrings.** Links to resistant materials, design briefs, task analysis and mood boards.



Manufacturing using hand tools and machinery.

Health and safety!