

YEAR 8 AUTOMATA

Automaton's are mechanical moving devices that follow an automatic set of movements. You will be designing an automata suitable for a customers of ages 3 and older, which is made of wood and incorporates thermoplastic moving parts.



KEY WORDS	Timber	Thermoplastic	Follower	Mitered Joint
	Tenon saw	Laser cutter	Pulley	Finger joint
	Coping saw	Hegner saw (jig saw)	Mechanism	Dowel joint
	Dowel	Wood glue	Pillar drill	Step-by-step
	Plywood	Cams	Butt Joint	









Wider Study Opportunities?

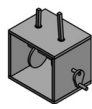
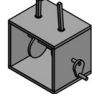

Careers - Designer, Entrepreneur, Trades, Home DIY, Personal projects, Apprenticeships

GCSE and A-Levels - Art, Graphics, Textiles, Photography, Product Design

Some of your learning will include:

-  An understanding of mechanisms through researching existing products and recording your ideas.
-  Creating your own designs using your research, which accurately plan how the components will work together to make motion.
-  Building a construction plan to follow during your making.
-  Building upon your initial knowledge developed in Year 7 on materials and manufacturing processes, by working with a variety of different timber products.
-  Becoming familiar with thermoplastic materials.
-  Evaluating your strengths and improvements to your design by thoughtfully reflecting on how well your automata functions.

Assessment and Feedback:

-  **Assessment Objective 1:** Demonstrates the ability to develop and record ideas through visual research and investigations. A research page that demonstrates a variety of designs, as well as some understanding of the construction and materials of the products.
-  **Assessment Objective 3:** Demonstrates an ability to record the process through technical instructions of how the automata is made. Health and safety information is also included.
-  **Assessment Objective 4:** Demonstrates a well thought out design that functions as an automata. A clear evaluation of the final design, highlighting strengths and improvements to the design.

Why this? Why now?

To build upon existing understanding of materials and processes, in preparation for GCSE and A-Level Product Design.

