

Year 6: Mechanical Systems

Subject Specific Vocabulary		Product Outcome	Important Knowledge
authentic	Something that is believable, real and meaningful (not a copy of something).		<ul style="list-style-type: none"> <input type="checkbox"/> I know the components of an automata toy. <input type="checkbox"/> I know how to measure, mark, cut and check the accuracy of the wood and card automata components. <input type="checkbox"/> I can select and use a range of tools safely. <input type="checkbox"/> I can cut and assemble a stable frame with precision to achieve a high-quality finish. <input type="checkbox"/> I know the cam profile causes a follower to rise, fall or remain static at different points depending on its shape. <input type="checkbox"/> I can design an automata mechanism to meet my design criteria. <input type="checkbox"/> I can measure and apply panels to my automata to conceal the inner-workings. <input type="checkbox"/> I know that good quality products should be neat, accurate and securely assembled. <input type="checkbox"/> I can critically analyse my product to produce an evaluation about how my product could be enhanced.
justify	To prove something to be right or true.		
innovative	A new idea, product or way of doing something.		
precise	To be exact and accurate.		
market research	The activity of gathering information about consumers' needs and preferences.		
automata	A moving mechanical device.		
component	A part or element of a larger whole, especially a part of a machine or vehicle.		
cam profile	The outer surface of the cam.		
follower	The device that follows the movement of the cam: a lever or a slider.		
framework	An essential supporting structure.		