Designing		Materials		Manufacture	
Target Market	Your coat hook is designed for a younger child.	MDF	Is a wood based composite made up of chippings and find wood dust bonded together with strong adhesive. It has no grain structure and is therefore weaker than natural wood.	Polishing	You can use very fine grit wet and dry paper to polish acrylic, to restore the glossy edge after filing. This will enhance the quality of your product
Inclusive design	This should be a product that anyone can use, so it must be simple and straightforward and need	Composite	Composites are materials that are made up of more than one type of material.	Batch production	Because you are making a product from a limited choice, others in your class will be making the same as you. This is an example of a small batch produced product
Gender neutral	no special instructions Designs that appeal to all genders, and avoid stereotypes such as blue for boys, etc.	Acrylic	A type of hard, brittle plastic. Acrylic is available in transparent, transluscent or opaque colours. It can be cut with a saw, filed, drilled and sanded	Template	Templates can be used to aid accuracy when marking out, to locate the position of drill holes and to make multiple copies of the same product
	stereotypes such as blac for boys, etc.	Thermo- plastics	Thermoplastics can be heated and shaped many times. This makes them recyclable	Cone Drill	You will use a cone drill to make conical holes for your speaker. This will help the sound reverber- ate and project forward
		Properties	Properties include physical (how a material looks) and mechanical (how a material can be manipulated)		
Explore—STEM links		Functionality		Critique	
			A1169	onuque	
Mechanism		Linkages	A mechanical way to join two or more levers together. Linkages allow distances to be spanned, an example of this is a brake system on a bike. You pull the lever and the linkages move further away on the wheel	Using criteri	You will be given a set of success criteria to make a judgement on how well made your product is. You will also use these criteria to evaluate products made by your class mates
Mechanism Motion;	You will be making a simple mechanism to create a movement. The mechanism you make will change an INPUT movement into		A mechanical way to join two or more levers together. Linkages allow distances to be spanned, an example of this is a brake system on a bike. You pull the lever and the linkages move further away on the wheel	_	make a judgement on how well made your product is. You will also use these criteria to
	You will be making a simple mechanism to create a movement. The mechanism you make will change an INPUT movement into an OUTPUT movement	Linkages	A mechanical way to join two or more levers together. Linkages allow distances to be spanned, an example of this is a brake system on a bike. You pull the lever and the linkages move further away on the wheel The movement you put into a mechanism, e.g. pulling a lever. When you hang a coat on the hook of your product it pulls the linkage down, providing an input	_	make a judgement on how well made your product is. You will also use these criteria to
Motion;	You will be making a simple mechanism to create a movement. The mechanism you make will change an INPUT movement into an OUTPUT movement Linear - movement in a straight line Rotary - movement in a circle	Linkages	A mechanical way to join two or more levers together. Linkages allow distances to be spanned, an example of this is a brake system on a bike. You pull the lever and the linkages move further away on the wheel The movement you put into a mechanism, e.g. pulling a lever. When you hang a coat on the hook of your	Using criteri	make a judgement on how well made your product is. You will also use these criteria to evaluate products made by your class mates

Vocabulary used in materials-MDF Composite Plastics Acrylic

Thermoplastics Batch Production

Properties Lever

Levers Linkage

Health and Safety - Wear protective clothing. Tie long hair back. Listen to instructions. Use the correct technique. Stay calm and sensible at all times. Tidy up after you have finished. Use the correct equipment safely

Year 8 Product Design

Knowledge Organiser: Coat Hook