

YEAR 7 RESISTANT MATERIALS CURRICULUM

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Unit Title	Desk Tidy Project	Desk Tidy Project	Desk Tidy Project	Desk Tidy Project	Desk Tidy Project	Desk Tidy Project
Overview	Students will learn about health and safety in a workshop. They will then go on to design their desk tidy based on a design brief.	Students will learn about tools and machines before moving on to make their desk projects.	Students will learn how to use the vac-forming machine to produce a plastic tray. They will also do some simple evaluation of their final project.	Students will learn about health and safety in a workshop. They will then go on to design their desk tidy based on a design brief.	Students will learn about tools and machines before moving on to make their desk projects.	Students will learn how to use the vac-forming machine to produce a plastic tray. They will also do some simple evaluation of their final project.
Assessment	Assessment 1 – Design based task	Assessment 2 – Google Sketch Up CAD test	Assessment 3 – Practical making task.	Assessment 1 – Design based task	Assessment 2 – Google Sketch Up CAD test	Assessment 3 – Practical making task.

YEAR 8 RESTISTANT MATERIALS CURRICULUM

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Unit Title	Maze Game	Maze Game	Maze Game	Maze Game	Maze Game	Maze Game
Overview	Students will be given a design brief and they will have to come up with ideas for a maze game that can be made from wood.	Students will make the maze game by accurately measuring and cutting joints onto the corners of a box. They will finish and varnish the box to a high standard.	Students will design and make the maze for the box using CAD. They will learn how to use 2D design to add graphics to draw out a maze and cut it on the laser cutter.	Students will be given a design brief and they will have to come up with ideas for a maze game that can be made from wood.	Students will make the maze game by accurately measuring and cutting joints onto the corners of a box. They will finish and varnish the box to a high standard.	Students will design and make the maze for the box using CAD. They will learn how to use 2D design to add graphics to draw out a maze and cut it on the laser cutter.
Assessment	Assessment 1 – Design based task	Assessment 2 – Google Sketch Up CAD test	Assessment 3 – Practical making task.	Assessment 1 – Design based task	Assessment 2 – Google Sketch Up CAD test	Assessment 3 – Practical making task.

YEAR 9 RESISTANT MATERIALS CURRICULUM

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Unit Title	Basic introduction to the design process Practice joints	Jewellery box	Jewellery box	Designing a product – USB memory stick	Designing a product – USB memory stick	Designing a product – USB memory stick
Overview	Students will begin to look at the first section of the specification and work on some design research tasks. They will also begin practical and start with some practice wood joints.	Students will design and make a jewellery box out of pine. They will also complete a small design folder that covers that all sections of the design process.	Students will design and make a jewellery box out of pine. They will also complete a small design folder that covers that all sections of the design process.	Students will begin to look at the design process and do some work on 'target market' and research.	Students will use hand drawn skills and CAD to produce realistic ideas for their own USB memory stick.	Students will produce prototypes of their best designs before coming up with a final solution. This will then be made using the laser cutter and 2D design.
Assessment	Practical Assessment 1 – the dovetail joint.	Section A – mock exam	Section B – mock exam	Assessment 1 – Design task 1	Assessment 2 – Computer based design task.	Assessment 3 – Practical making task.

--	--	--	--	--	--	--

YEAR 10 RESISTANT MATERIALS CURRICULUM

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Unit Title	<p>Basic introduction to the design process</p> <p>Practice joints</p>	Jewellery box	Jewellery box	Learning Toy	GCSE Controlled Assessment Task	GCSE Controlled Assessment Task
Overview	<p>Students will begin to look at the first section of the specification and work on some design research tasks. They will also begin practical and start with some practice wood joints.</p>	<p>Students will design and make a jewellery box out of pine. They will also complete a small design folder that covers that all sections of the design process.</p>	<p>Students will design and make a jewellery box out of pine. They will also complete a small design folder that covers that all sections of the design process.</p>	<p>Students will be given a design brief and they will have to come up with a range of solutions including a prototype.</p>	<p>Students will begin the GCSE controlled assessment task by choosing their task and beginning the research section.</p>	<p>Students will continue with section 1 of the controlled assessment task and work on 'Google Sketch Up' to improve their CAD ability.</p>
Assessment	<p>Practical Assessment 1 – the dovetail joint.</p>	<p>Section A – mock exam</p>	<p>Section B – mock exam</p>	<p>Practical Assessment 2 – design task.</p>	<p>GCSE assessment criteria</p> <p>Section A – mock exam</p>	<p>GCSE assessment criteria</p> <p>Section B – mock exam</p>

YEAR 11 RESISTANT MATERIALS CURRICULUM

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Unit Title	GCSE Controlled Assessment Task	GCSE Controlled Assessment Task	GCSE Controlled Assessment Task	Focussed exam revision	Focussed exam revision	
Overview	Ideas - Students will move onto section 2 of the controlled assessment task and come up with a range of ideas to solve their design brief. They will produce one or more working prototypes.	Making – Students will make their final solution for the controlled assessment task. They can use a range of materials but must produce a successful outcome that matches their ideas.	Evaluation – Students will evaluate their final solution against a number of criteria and look at how products are made in industry.	This term will be spent working on technique, looking at specific questions and how to answer them. We will also work a number of topics linked to the specification.	This term will be spent working on technique, looking at specific questions and how to answer them. We will also work a number of topics linked to the specification.	
Assessment	GCSE assessment criteria Section A – mock exam	GCSE assessment criteria Section B – mock exam	GCSE assessment criteria Section A – mock exam	Section B – mock exam	GCSE exam	

