

Design Year 7 Curriculum Map

<p>In this unit of work the pupils are introduced to the workshop. It may be the first time some pupils have been in a workshop environment therefore health and safety is an important factor. The department promotes safe working practice at all times and the pupils are made aware of the rules and expectations accordingly. Pupils will produce basic design work Pupils use a piece of laminated acrylic and cut, drill and file their material to make a key fob. This is an introduction to a range of basic tools and machinery and developing and reinforcing routines and independent learning.</p>		
Unit 1	I am learning	I will be able to
Key fob	<ul style="list-style-type: none"> • How to measure accurately using millimetres • The importance of Health and safety in the workshop • The properties of acrylic • How to cut basic lines in acrylic • Set up the coping saw • How to use a jig on the pillar drill • How to select the correct tool to file to a line • Understand the different grades of sandpaper • Evaluate their work by peer assessment and self-assessment 	<ul style="list-style-type: none"> • Successfully make a plastic key fob • Understand the need for H&S in the workshop • Produce simple design work • Cut straight lines in acrylic using the coping saw • Use a flat file to file an edge flat • Use a jig in the pillar drill to drill a hole under supervision • Name a range of hand files • Use of sandpaper and understand the grading system • Peer evaluation

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In this unit of work the pupils will engage in researching world cultures including Day of the Dead from Mexico and African tribes as well as Japanese Noh Theatre and Venetian Masquerade festivals. They will develop a mask by looking at examples of a range of masks then designing their own. They will look at pattern and texture and experiment with a range of materials to create a surface pattern on their masks. They will collect items from the home which can be recycled to add to and develop their design work. They will learn how to cut, manipulate and join corrugated recycled board safely using knives, hot glue guns and gum strip paper. Health and safety will be considered and safe working practice, reinforced.

Unit 2	I am learning	I will be able to
Mask design and manufacture	<ul style="list-style-type: none"> • How masks are designed and what they represent in other cultures • How to develop a basic design into a more complex one. • Safely using craft knives • Safely using a glue gun • How to develop a pattern to use as a surface decoration • How items from the home can be recycled • Use gum strip paper 	<ul style="list-style-type: none"> • Make a decorated tribal mask • Work safely with knives and hot glue guns • Develop design ideas from a basic starting point • Look at products from other cultures and create my own designs in response • Use recycled items for decoration • Evaluate my work and develop my ideas

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In this unit of work pupils will engage in a linear design project. They will be given a design brief and will identify their target market / user and use mind mapping to develop their own specification. They will use simple modelling to help develop their design ideas and will use the laser cutter to enhance their design work. Client assessment will be used to decide a final design which will then be made. Once completed, the product will be tested against the specification and an evaluation will be completed.

Unit 3	I am learning	I will be able to
Photo frame project	<ul style="list-style-type: none"> • How to develop a design brief • How to develop a specification • Evaluate work against a specification • Research into existing products • The properties of Medium Density Fibre Board • Communicate ideas using simple graphic techniques • How to use the band facer • Use mathematical modelling when developing design ideas 	<ul style="list-style-type: none"> • Successfully make a photo frame • Mind map target market • Develop design ideas using a specification • Make simple models to show design ideas • Use the coping saw to cut out and enclosed shape • Select correct file to refine an edge on my frame • Use the band facer to sand down to a line, safely and accurately • Display a standard 6x4 photo in my frame

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Unit 4	I am learning	I will be able to do
Mini light project	<ul style="list-style-type: none"> • Electronic symbols and their meaning • How circuits work • The properties of plastozote • The properties of High Impact Polystyrene • Why LEDs were developed and why they are so important • How to package a product that I have made • Varied construction methods to laminate two different materials 	<ul style="list-style-type: none"> • Design a torch • Safely and accurately cut HIPS and plasazote • Use the pillar drill accurately and independently • Design my own packaging • Make a functioning torch • Create a smooth finish on the edges of my torch using automotive paper