



**Year 7
Autumn Term**

Pathway 2/3/4

**Subject: Design Technology (Resistant Materials)
Introduction to Workshop Health and Safety and
Two materials categories woods and plastics**

Learning Intention: Woods categories and Processes This Unit will introduce students to the workshop and run through the basic health and safety requirements in the workshop as well as using basic tools. The second half of the project is to make introduce the students to two material categories wood and plastic by making a pencil box and photo frame.

Key knowledge that should be learned during this SoW

All

Most

Some

Concept:

To understand the health and safety rules of the workshop and demonstrate the application of them in making a pencil box in wood and a photo frame in acrylic.

Knowledge:

All students should be able to understand the health and safety rules for the workshop and produce a safety poster and make a pencil box with support.

All students will be able to use the tools safely.

All students will learn about basic categories of plastic and how to cut and bend it.

All students will be able to construct

Most students will be able to understand the health and safety rules for the workshop and produce a safety poster and make a pencil box and decorate it with a little support.

Most Students will be able to use and name the tools safely.

Most students will learn about basic properties of the the two plastic categories and how they react to heat.Students will be able to cut and

Some students can understand health and safety rules for the workshop and explain them and produce a safety poster to reflect a safety rule and make a pencil box and decorate it with a safety theme independently.

Some Students will be able to use and name what each tool is used for including safety procedures independently. the tools safely.

Some students will learn about basic

	the photo frame with complete support.	bend the acrylic with little support.	properties of plastics and be able to name plastics in each category as well as well as some uses for them .To be able to cut and bend the acrylic independently.
Key Skills:	<p>To know the main safety rules and how to use the tools safely.</p> <p>To know the names of 3 types of wood</p> <p>To know the names of 2 types of plastic</p> <p>To know the names of some of the different tools to be used.</p> <p>To know how to use a coping saw and tenon saw.</p>	<p>To know all the main safety rules for the workshop and safety protective equipment and how to use the tools safely.</p> <p>To know the names and uses of the woods and plastic used in the project..</p> <p>To know the names of the tools for this project and what they are used for.</p> <p>To know how to use a coping saw tenon saw ,clamp and cordless drill</p> <p>To assemble the pencil box</p>	<p>To know all the main safety rules for the workshop and safety protective equipment and how to use the tools safely.</p> <p>To know the names and what the electronic components do and make a simple circuit with a switch.</p> <p>To know the names of the tools for this project and what they are used for.</p> <p>To know how to use a coping saw ,tenon saw, clamp cordless drill file and the line bender</p> <p>To assemble the pencil box, decorate and bend the photo frame.</p>
Language and/or communication skills:	<p>Safety rules. Apron ,goggles, hard shoes, ear defenders, Gloves.</p> <p>Coping saw, bench hook,G clamp, screwdriver vice steel ruler cordless</p>	<p>Safety rules. Apron ,goggles, hard shoes, ear defenders, Gloves.</p> <p>Coping saw, bench hook, g clamp</p>	Mdf Dowel

	<p>drill.</p> <p>Softwood,hardwood manufactured board.</p> <p>Thermo and thermoset plastic</p>	<p>,screwdriver vice steel ruler cordless</p> <p>drill .</p> <p>Softwood,hardwood manufactured board. Pine oak MDF</p> <p>Thermo and thermoset plastic</p> <p>Acrylic polythene</p>	
<p>Curricular Links</p>	<p>Links to other learning within the subject are: Science ,maths</p>		