



Dallam School

Curriculum Overview

Department: Design and Technology –
MULTI SKILLS*

Year Group: 10

AUTUMN/WINTER		SPRING		SUMMER	
Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Theme / Topic		Theme / Topic		Theme / Topic	
<p>Introduction to AQA Unit Awards – and purpose of qualifications</p> <p>Woodworking skills Correct use of a range of tools Construct a wooden planter (paired task)</p>		<p>Joints – make a box</p> <p>Making a bird box – understanding the research that is required</p>		<p>Building a football table from recycled materials</p>	
By the end of this half term pupils will know (<i>key knowledge, including tier 3 vocabulary</i>)					
<p><i>Students will work through 3 AQA UAS projects. Students will be able to use a range of tools safely and have gained basic woodworking skills using hand tools</i></p> <p><i>In pairs students will design and make planters in pairs, and use dimensioned drawings. They will understand what standard components and stock forms are</i></p> <p>Tier 3 vocab</p> <ul style="list-style-type: none"> ➤ Health and Safety ➤ Legal requirements <ul style="list-style-type: none"> ➤ PPE ➤ Dimensions ➤ Standard Components <ul style="list-style-type: none"> ➤ Stock Forms ➤ Hardwoods ➤ Softwoods <ul style="list-style-type: none"> ➤ Nuts ➤ Bolts ➤ Screws ➤ Countersunk ➤ Spade bits ➤ Forstner bit ➤ Calculate costings <ul style="list-style-type: none"> ➤ Labour ➤ Raw materials 		<p>Students will work on their different joints and then utilise these skills in a box – jewellery/cards/game box</p> <p>Students will work on a practical – bird box, students will use a range of skills including vac forming and line bending as well as the use of CAD and CAM</p> <p>Tier 3 vocab:</p> <ul style="list-style-type: none"> ➤ Dowel ➤ Finger joints ➤ Butt joints ➤ Dovetail joints <ul style="list-style-type: none"> ➤ Finish ➤ Stain ➤ Varnish ➤ Laquer ➤ CAD ➤ CAM ➤ Vector ➤ CNC ➤ Thermoforming ➤ Thermosetting <ul style="list-style-type: none"> ➤ Tenon saw ➤ Coping Saw <ul style="list-style-type: none"> ➤ File ➤ Abrasion 		<p>Students will design and manufacture a football table using recycled materials</p> <p>Tier 3 vocab</p> <ul style="list-style-type: none"> ➤ Researching design possibilities <ul style="list-style-type: none"> ➤ Sustainability <ul style="list-style-type: none"> ➤ Wastage ➤ Finite ➤ Non-finite ➤ Dimensions ➤ Mechanism <ul style="list-style-type: none"> ➤ Testing ➤ Evaluation ➤ Recycle ➤ Reduce ➤ Reuse ➤ Rethink ➤ Refuse ➤ Repair 	

They will understand (<i>key concepts</i>)		
Importance of appropriate tools Different finishes and applications Health and Safety in a workshop setting	Why different joints are used How different materials properties suit different joints How to ensure accuracy in different joints Understand different polymer forming methods	Understand why sustainability in design is important What is sustainable design Recycled materials Use of CAD and CAM
They will know how to (<i>key skills</i>)		
<ul style="list-style-type: none"> ➤ How to use different woodworking tools safely and accurately ➤ Which tools are appropriate for its application ➤ How to draw an exploded diagram and accurately dimension a drawing ➤ How to apply finishes ➤ Work in a team ➤ Calculate costings 	<ul style="list-style-type: none"> ➤ Create dowel, finger, butt and dovetail joints ➤ Carry out testing on different joints ➤ Understand how to vacuum form ➤ Understand how to draw accurately in CAD and use 3D printer for CAM ➤ Consideration of client needs and wants 	<ul style="list-style-type: none"> ➤ Consider what materials could be used that are recycled ➤ Minimise wastage ➤ Mechanisms ➤ Clients wants and needs ➤ Use the laser cutter and 3D printer independently (under supervision)

*New Course for September 2025 to be reviewed at the end of each half term.