

SUBJECT NAME: Design Technology Curriculum Plan 2024 – 2025

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Yr7 Group swap after HT3	Measuring and Drawing Health and Safety Key Fob Project Learning 3D drawing Mind maps, specification, Design ideas Introduction to tools and machines	Key Fob Project Working with acrylic plastic to make the chosen key fob. Desk Tidy Perspective drawing Summative Assessment	Desk Tidy Working with wood to make a desk tidy Introduction to Computer Aided Design	Measuring and Drawing Health and Safety Key Fob Project Learning 3D drawing Mind maps, specification, Design ideas Introduction to tools and machines	Key Fob Project Working with acrylic plastic to make the chosen key fob. Desk Tidy Perspective drawing Summative Assessment	Desk Tidy Working with wood to make a desk tidy Introduction to Computer Aided Design
Yr8 Group swap after HT3	Model Making Project (Design Process) Design ideas Practical demonstrations Using Computer Aided Design to develop design ideas. Summative Assessment	Model Making Project (Practical) Working with wood, plastic and standard components Learning how to cut, shape and join different materials. Developing finishing skills	Knowledge and Understanding Properties of materials Natural and manmade timbers Metals and alloys Plastics Textiles Smart Materials Summative Assessment	Model Making Project (Design Process) Design ideas Practical demonstrations Using Computer Aided Design to develop design ideas.	Model Making Project (Practical) Working with wood and standard components Learning how to cut, shape and join different materials. Developing finishing skills	Knowledge and Understanding Properties of materials Natural and manmade timbers Metals and alloys Plastics Textiles Smart Materials Summative Assessment
Yr9	Drawing Skills Oblique drawing Isometric drawing Perspective drawing Orthographic drawing Summative Assessment	Door Knocker Project Research Design Ideas Working with wood, plastic and standard forms Using plans to manufacture the door knocker. Developing finishing skills	A Box with Style Computer Aided Design Creating Exploded Views (CAD) Creating cutting plans (Paper) Working with plywood, plastic, standard components and standard forms to add value and style to a standard wooden box	3D Sign Project Knowledge of plastics Drawing skills Design ideas Using the vacuum former to create a 3D sign from wooden moulds.	Metalwork Project Knowledge of metals and alloys Practical demonstrations of cutting and shaping steel, brazing steel, dip coating steel. Making a metal coat hook.	Theory Based Learning (Knowledge and Understanding) A Deeper Understanding of Materials and their Properties. Developments in New Materials. New and Emerging Technologies. Electronic and Mechanical Systems.
Yr10	Four joint Box Project Drawing Skills Demonstrations CAD Practical Outcome New and Emerging Technologies Energy, materials, systems and devices	Artisan Showcase Project Working with aluminium Working with acrylic Working with brass Materials and their working properties	Artisan Showcase Project Lamination of plywood Advanced brazing MIG Welding Specialist technical principles Paper, card, timber and metal	Artisan Showcase Project Riveting Steel Enameling copper Designing the presentation case Specialist technical principles Polymers, textiles and electronic systems	Artisan Showcase Project Making the presentation case Designing and Making Principles	Begin GCSE Controlled Assessment Analysis of Task Product Research Client and User Profile Design Brief and Specification
Yr11	GCSE Controlled Assessment Design Ideas (Sketched) Design Ideas (CAD) Design Ideas (Models) Design Ideas (Tech Drawing)	GCSE Controlled Assessment Development of design ideas Final Design Manufacturing Specification	GCSE Controlled Assessment Creating the prototype	GCSE Controlled Assessment Evaluation	Revision	Revision