



CURRICULUM – DESIGN & TECHNOLOGY

Head of Department: Billie Reddish
Southchurch High School

Year Group	Half-term 1	Half-term 2	Half-term 3	Half-term 4	Half-term 5	Half-term 6
7	Wooden Coat Hook Designing and making a wooden coat hook with pine & MDF. Students will be using hand tools and machines	Textiles / Food Technology Rotation	Textiles / Food Technology Rotation	Torch Students will be designing torches and creating their designs on 2D CAD. They will learn about laser cutting and electronics as they create their circuits.	Textiles / Food Technology Rotation	Textiles / Food Technology Rotation
8	Mechanical Toy Designing and making a wooden mechanical toy with pine and MDF. Students will be using hand tools and machines to create the CAM and frame, and 2D Design/ CAD to create their figures	Textiles / Food Technology Rotation	Textiles / Food Technology Rotation	Aluminum Candle holder Students will create intricate designs for a candle holder that will project an image when lit. They will learn metal work skills while using hand tools and machines.	Textiles / Food Technology Rotation	Textiles / Food Technology Rotation
9	Fast Track Game Designing and making a wooden game with pine & MDF. Students will be using hand tools and machines while learning about accuracy, tolerance	Textiles / Food Technology Rotation	Textiles / Food Technology Rotation	Aluminum Animal Light Designing and making an animal light from sheet metal. Students will learn about electronics and use a variety of tools and processes to create their lamp.	Textiles / Food Technology Rotation	Textiles / Food Technology Rotation
10	Production Methods Students will learn about different production methods and production aids. Pupils will learn through theory and practical	Material Properties Pupils will learn about the following materials: papers & boards; timbers; polymers; textiles; metals; smart materials. Pupils will learn through a mixture of theory and practical	Manufacturing Processes Pupils will continue with their material properties, learning in depth about timbers and plastics. Pupils will also learn about particular manufacturing processes for those	Technical Drawings Pupils will learn about the different technical drawings, and practice their 2D and 3D sketching.	3D Design & CAD Students will continue learning about manufacturing processes and 3D designing. They will learn CAD and practice their 3D modeling skills during practicals.	Coursework Students will start on the NEA when the context is released. They will analyse the context, existing products and create a brief & specification
11	Coursework / Revision Students will work on the NEA. They will analyse the context, existing products and create a brief & specification	Coursework / Revision Students will work on the NEA. They will analyse existing products and create a brief & specification. Students will create	Coursework / Revision Students will work on the NEA. They will analyse the context, existing products and create a brief & specification	Coursework / Revision Students will work on the NEA. They will analyse the context, existing products and create a brief & specification	Revision	