

Year 7	Year 8	Year 9
<p><u>D&T 1 – Textiles basic skills.</u></p> <ul style="list-style-type: none"> • Hand stitching, • Applique, • Fibres and fabrics, • Surface decoration, • Scales of production, • Designer Profile – Coco Chanel, • Product Design Task. 	<p><u>D&T 1 - Textiles – Sewing machines and Key Fob project.</u></p> <ul style="list-style-type: none"> • Setting up a sewing machine, • Sewing a plain seam, • Making of the Key Fob, • Properties of Materials, • Energy, • Smart and Modern Materials, • Designer profile – Alexander McQueen, • Designer influence design task. 	<p><u>Unit 1 - 3D CAD – Onshape & 3D printing project.</u></p> <ul style="list-style-type: none"> • Introduction to Onshape basic skills, • Dice project, • Monopoly piece design task, • New and Emerging Technologies.
<p><u>D&T 2 – Timbers & Polymers - Maze project.</u></p> <ul style="list-style-type: none"> • Product Analysis, • Introduction to Techsoft 2D design, • CAD/CAM theory, • Oblique Drawing skills, • Polymers theory, • Resource life cycles. 	<p><u>D&T 2 - Timbers - Light Box project.</u></p> <ul style="list-style-type: none"> • Timbers Theory • Development of Techsoft 2D design, • 2 Point Perspective, • Making of the light box. 	<p><u>Unit 2 - Hand drawing skills.</u></p> <ul style="list-style-type: none"> • Freehand sketching, • Isometric drawing, • Rendering.
		<p><u>Unit 3 - Textiles – Zip purse project.</u></p> <ul style="list-style-type: none"> • Company Profile – Dyson, • Attaching a zip, • Making of the purse, • Manufacturing specifications.
		<p><u>Unit 4 - Metals – pewter casting.</u></p> <ul style="list-style-type: none"> • Metals theory • Making Pewter cast pendant/keyring
		<p><u>Unit 5 Design And Make challenge.</u></p> <ul style="list-style-type: none"> • Papers and boards theory • Modelling and prototyping