

Design & Technology and Construction

Time of Year	Year 7	Year 8	Year 9	Year 10	Year 11
Autumn 1	<p><u>Maze Puzzle</u></p> <p>Theory: Brief and spec, using and undersanding technical information, drawing techniques, machines and tools, design, evaluation skills</p> <p>Practical: measuring, cutting, assembling, gluing, decorating. Clamping</p>	<p><u>Sweet dispenser</u></p> <p>Theory: brief, product analysis, ghannt charts, materials used in contruction of houses,</p> <p>Practical: marking out and cutting, sanding and drilling using jigs, assembly</p>	<p><u>Mosaic Planter</u></p> <p>Theory: H&S, Brief, spec understanding technical drawings, trades, joint types, evaluation</p> <p>Practical: measure, mark out, drilling, assembling front and sides, joining and making feet, creating mosaics</p>	<p><u>Construction</u></p> <p>Theory: Course intro, civil engineering, building functions, professionals, architect, structural engineer, contracts manager, surveyor, materials extraction and transformation, operations and maintenance</p> <p>Practical: Half lap dovetails, joinery dowels, joinery half lap, mitre joint, mortice and tenon, stud walls,.</p>	<p><u>Construction</u></p> <p>Theory and Practical: CA - Stud wall, tiling, painting and decorating</p>
Time of Year					
Autumn 2	<p><u>Maze Puzzle</u></p> <p>Theory: Brief and spec, using and undersanding technical information, drawing techniques, machines and tools, design, evaluation skills</p> <p>Practical: measuring, cutting, assembling, gluing, decorating. Clamping</p>	<p><u>Sweet dispenser</u></p> <p>Theory: brief, product analysis, ghannt charts, materials used in contruction of houses,</p> <p>Practical: marking out and cutting, sanding and drilling using jigs, assembly</p>	<p><u>Mosaic Planter</u></p> <p>Theory: H&S, Brief, spec understanding technical drawings, trades, joint types, evaluation</p> <p>Practical: measure, mark out, drilling, assembling front and sides, joining and making feet, creating mosaics</p>	<p><u>Construction</u></p> <p>Theory: Demolition, waste disposal, sustainability, infrastructure, dwellings residential, commercail and industrial buildings, religious buildings, low rise elements and components, materials in walls, floors, roofs</p> <p>Practical: painting and decorating, joinery,</p>	<p><u>Construction</u></p> <p>Theory and Practical: CA - Stud wall, tiling, painting and decorating</p>
Spring 1	<p><u>Pocket Monsters</u></p> <p>Theory: H&S, textiles introduction, fibres and properties, 6Rs, design content, brief and analysis, designing, evaluating</p> <p>Practical: embroidery stitches, template making, applique, attaching a button, backstitch, mattress stitch, fabric cutting</p>	<p><u>Pocket Monsters</u></p> <p>Theory: H&S, textiles introduction, fibres and properties, 6Rs, design content, brief and analysis, designing, evaluating</p> <p>Practical: embroidery stitches, template making, applique, attaching a button, backstitch, mattress stitch, fabric cutting</p>	<p><u>Pocket Monsters</u></p> <p>Theory: H&S, textiles introduction, fibres and properties, 6Rs, design content, brief and analysis, designing, evaluating</p> <p>Practical: embroidery stitches, template making, applique, attaching a button, backstitch, mattress stitch, fabric cutting</p>	<p><u>Construction</u></p> <p>Theory: Renewable tech, ellular const, rectangular framed const, portal frames const, heritage and trad, enviro, financial, cultueal, social etc, pollution and nat enviro, sustainable materials</p> <p>Practical: painting and decorating, painting and decorating coursework</p>	Revision
Spring 2	<p><u>Pocket Monsters</u></p> <p>Theory: H&S, textiles introduction, fibres and properties, 6Rs, design content, brief and analysis, designing, evaluating</p> <p>Practical: embroidery stitches, template making, applique, attaching a button, backstitch, mattress stitch, fabric cutting</p>	<p><u>Pocket Monsters</u></p> <p>Theory: H&S, textiles introduction, fibres and properties, 6Rs, design content, brief and analysis, designing, evaluating</p> <p>Practical: embroidery stitches, template making, applique, attaching a button, backstitch, mattress stitch, fabric cutting</p>	<p><u>Pocket Monsters</u></p> <p>Theory: H&S, textiles introduction, fibres and properties, 6Rs, design content, brief and analysis, designing, evaluating</p> <p>Practical: embroidery stitches, template making, applique, attaching a button, backstitch, mattress stitch, fabric cutting</p>	<p><u>Construction</u></p> <p>Theory: waste disposal, brownfield and planning, bricklayer, stonemasonm plasterer, joiner, plumber, painter and decorator, flooring and tiling</p> <p>Practical: joinery tasks, decorator tasks</p>	Revision
Summer 1	<p><u>Windchimes</u></p> <p>Theory: Brief, product analysis, Sustainability & 6Rs, Metals and woods properties, design theory</p> <p>Practical: Measuring and marking out, drilling and cutting, joining, half-lap joint</p>	<p><u>Insect House</u></p> <p>Theory: Brief product analysis, designer influence, pollution and the environment,</p> <p>Practical: measuring, cutting, assembly, cutting angled joints</p>	<p><u>Acrylic Lamp</u></p> <p>Theory: intro, brief, success criteria, design ideas, designing lamp,</p> <p>Practical: joining lamp, cutting acrylic, assembling, electronics</p>	<p><u>Construction</u></p> <p>Theory: Risks to employees, H&S legislation, CA spec launch, building regs brief, working at heights, CA design brief launch, planning and organising & tools</p> <p>Practical: carpentry skills</p>	Revision
Summer 2	<p><u>Windchimes</u></p> <p>Theory: Brief, product analysis, Sustainability & 6Rs, Metals and woods properties, design theory</p> <p>Practical: Measuring and marking out, drilling and cutting, joining, half-lap joint</p>	<p><u>Insect House</u></p> <p>Theory: Brief product analysis, designer influence, pollution and the environment,</p> <p>Practical: measuring, cutting, assembly, cutting angled joints</p>	<p><u>Acrylic Lamp</u></p> <p>Theory: intro, brief, success criteria, design ideas, designing lamp,</p> <p>Practical: joining lamp, cutting acrylic, assembling, electronics</p>	<p><u>Construction</u></p> <p>Theory: Characteristic of materials, prepping ofr const tasks, work sequencing, H&S in workplace calculating resources, ratios, perim, calcs, planning identifying prepping, removing and disposing materials, evaluation</p> <p>Practical: CA tasks, building stud wall, plasterboard,</p>	