

# Design & Technology and Construction

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