

# St Mary's Catholic Primary School

## Design & Technology Vocabulary Progression

| EYFS   | <p>In EYFS, we expect children to understand and use the following words or their associated meanings:</p> <p>weave, fasten/unfasten, pincer, post, thread, mark make, tools, join, materials, stack, natural, balance, cut, dismantle, take apart, mould, build, chop, grate, squeeze, texture, pattern, print, safe, click, twist, squash, turn, thread, peg, sew, shape, wrap, weave.</p> |  |  |
|--------|--|--|--|
|        | Autumn Term  | Spring Term  | Summer Term  |
| Year 1 | <p><u>Structures – Constructing a windmill</u></p> <p>axle<br/>bridge<br/>design<br/>design criteria<br/>model<br/>net<br/>packaging<br/>structure<br/>template<br/>unstable<br/>stable<br/>strong<br/>weak</p>  | <p><u>Textiles – Puppets</u></p> <p>decorate<br/>design<br/>fabric<br/>glue<br/>model<br/>hand puppet<br/>safety pin<br/>staple<br/>stencil<br/>template</p>     | <p><u>Mechanisms / Mechanical Systems – Making a moving storybook</u></p> <p>sliders<br/>mechanism<br/>adapt<br/>design criteria<br/>design<br/>input<br/>model<br/>template<br/>assemble<br/>test</p> |
| Year 2 | <p><u>Mechanisms / Mechanical Systems – Making a moving monster</u></p> <p>axle<br/>design criteria<br/>input<br/>linkage<br/>mechanical<br/>output<br/>pivot<br/>wheel</p>  | <p><u>Structures – Hermelin's Chair</u></p> <p>design criteria<br/>man-made<br/>natural<br/>properties<br/>structure<br/>stable<br/>shape<br/>model<br/>test</p> | <p><u>Textiles – Pouches</u></p> <p>decorate<br/>fabric<br/>fabric glue<br/>knot<br/>needle<br/>needle threader<br/>running stitch<br/>sew<br/>template<br/>thread</p>                                 |



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| Year 3 | <b><u>Mechanisms / Mechanical Systems - Pneumatic toys</u></b><br><br>mechanism<br>lever<br>pivot<br>linkage system<br>pneumatic system<br>input<br>output<br>component<br>thumbnail sketch<br>research<br>adapt<br>properties<br>reinforce<br>motion | <b><u>Structures – Constructing a castle</u></b><br><br>2D/3D<br>castle<br>design<br>key features<br>net<br>scoring<br>shape<br>stable<br>stiff<br>strong<br>structure<br>tab                                 | <b><u>Textiles – Cushions or Egyptian collars</u></b><br><br>appliqué<br>cross-stitch<br>design<br>equipment<br>fabric<br>patch<br>running stitch<br>thread<br>seam<br>texture<br>knot |
|        | <b><u>Year 4</u></b><br><br>Criteria<br>Fabric<br>Fastening<br>Fix<br>Mock-up<br>Stitch<br>Template   | <b><u>Mechanisms / Mechanical Systems – Making a slingshot car</u></b><br><br>chassis<br>energy<br>kinetic<br>mechanism<br>air resistance<br>design<br>structure<br>graphics<br>research<br>model<br>template | <b><u>Structures – Pavilions</u></b><br><br>3D shapes<br>Cladding<br>Design criteria<br>Innovative<br>Natural<br>Reinforce<br>Structures   |



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|---------------|--|---|--|
| <b>Year 5</b> | <u><b>Mechanisms/ Mechanical Systems – Pop up book</b></u><br><br>design<br>input<br>motion<br>mechanism<br>criteria<br>research<br>reinforce<br>model | <u><b>Structures – Bridges</b></u><br><br>beam bridge<br>arch bridge<br>truss bridge<br>strength<br>technique<br>corrugation<br>lamination<br>stiffness<br>rigid<br>factors<br>stability<br>visual appeal<br>aesthetics | <u><b>Textiles – Stuffed Toys</b></u><br><br>joints<br>mark out<br>hardwood<br>softwood<br>wood file/rasp<br>sandpaper/glasspaper<br>bench hook/vice<br>tenon saw/coping saw<br>assemble<br>material properties<br>reinforce<br>wood sourcing<br>evaluate<br>quality of finish   |
| <b>Year 6</b> | <u><b>Structures – Playgrounds</b></u><br><br>apparatus<br>design criteria<br>equipment<br>playground<br>landscape features<br>cladding                | <u><b>Textiles – Waistcoats</b></u><br><br>annotate<br>decorate<br>design criteria<br>fabric<br>target customer<br>waistcoat<br>waterproof  | <div> <u><b>Mechanisms / Mechanical Systems – Automata toys</b></u> </div> <div>           accurate<br/>           assembly-diagram<br/>           automata<br/>           axle<br/>           bench hook<br/>           cam<br/>           clamp<br/>           component<br/>           cutting list<br/>           diagram<br/>           dowel<br/>           drill bits<br/>           exploded-diagram<br/>           finish         </div> <div>           follower<br/>           frame<br/>           function<br/>           hand drill<br/>           jelutong<br/>           linkage<br/>           mark out<br/>           measure<br/>           mechanism<br/>           model<br/>           research<br/>           right-angle<br/>           set square<br/>           tenon saw         </div> |