

Holymead Primary - DT Progression of skills

	Developing, planning and communicating ideas	Working with tools, equipment, materials and components	Evaluating processes and products	Knowledge and understanding of materials and components
Early Years	<p>I can build and construct with a wide range of objects, selecting appropriate resources and adapting my work where necessary.</p> <p>I can select the tools and techniques I need to shape, assemble and join the materials I am using.</p>	<p>I can use a small range of equipment.</p> <p>I can handle tools, objects, construction and malleable materials safely and with increasing control.</p> <p>I can use programmable toys to support my learning.</p>	<p>I can ask questions about why things happen and how things work</p>	<p>I can select and use activities and resources independently (where appropriate).</p>
Year 1	<p>I can generate ideas by drawing on my own experiences.</p> <p>I can develop ideas by exploring different materials and putting together components.</p> <p>I can talk about my ideas.</p> <p>I can plan by suggesting what to do next (may be prompted by adult).</p> <p>I can communicate my ideas by drawing and making models.</p>	<p>With help, I can select tools, techniques and materials for making my product from a range suggested by the teacher.</p> <p>I can explore the sensory qualities of materials.</p> <p>I can mark out, cut and shape basic materials.</p> <p>I can assemble/join materials and components.</p>	<p>I can talk about my ideas.</p> <p>I can identify what I could have done differently (may be prompted by adult).</p>	<p>With help, I can show how to make materials stronger [for example, folding paper to make it stiffer, plaiting string to make it stronger].</p> <p>I can talk about what I notice about different mechanisms [for example, wheels and axles, joints that allow movement].</p>

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Year 2	<p>I can generate ideas by drawing on my own and other people's experiences.</p> <p>I can develop ideas by shaping materials and putting together components.</p> <p>I can talk about my ideas. I can plan by suggesting what to do next as my ideas develop.</p> <p>I can communicate my ideas using a variety of methods, including drawing and making models.</p>	<p>I can select tools, techniques and materials for making my product from a range suggested by the teacher.</p> <p>I can explore the sensory qualities of materials.</p> <p>I can measure, mark out, cut and shape a range of materials.</p> <p>I can assemble, join and combine materials and components.</p> <p>I can use simple finishing techniques to improve the appearance of my product.</p>	<p>I can talk about my ideas, saying what I like and dislike.</p> <p>I can identify what I could have done differently or how I could improve my work in the future.</p>	<p>I know about the working characteristics of materials [for example, folding paper to make it stiffer, plaiting string to make it stronger].</p> <p>I understand how mechanisms can be used in different ways [for example, wheels and axles, joints that allow movement].</p>

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Year 3 / 4	<p>I can generate ideas for products after discussing with others who will use them and what they will be used for.</p> <p>I can develop some ideas and explain them.</p> <p>I can plan what I have to do, suggesting a sequence of actions.</p>	<p>I can select appropriate tools and techniques from a limited range.</p> <p>I can suggest alternative ways of making my product, if first attempts fail.</p> <p>I can explore the sensory qualities of materials.</p> <p>I can measure, mark out, cut, assemble, join and combine a few components and materials.</p> <p>I can use finishing techniques to strengthen and improve the appearance of my product from a range of equipment provided.</p>	<p>I can reflect on the progress of my work as I design and make, identifying ways I could improve my products.</p> <p>I can recognise that the quality of a product depends on how well it is made.</p>	<p>I know how the working characteristics of materials affect the ways they are used.</p> <p>I know how materials can be combined and mixed to create more useful properties [for example, using cardboard triangles on the corners of a wooden framework to strengthen it, using a particular stitch to make something more secure].</p> <p>I know how electrical circuits can be used. (Y4)</p>

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Year 5 / 6	<p>I can generate ideas for products after thinking about who will use them and what they will be used for, using information from a number of sources, including ICT-based sources.</p> <p>I can develop ideas and explain them clearly, putting together a list of what I want the design to achieve.</p> <p>I can plan what I have to do, suggesting a sequence of actions and alternatives, if needed.</p> <p>I can communicate design ideas in different ways as these develop, bearing in mind aesthetic qualities (overall appearance), and the uses and purposes for which the product is intended.</p>	<p>I can select appropriate tools and techniques for making my product.</p> <p>I can suggest alternative ways of making my product, if first attempts fail.</p> <p>I can explore the sensory qualities of materials and how to use different materials.</p> <p>I can measure, mark out, cut and shape a range of materials, and assemble, join and combine components and materials accurately.</p> <p>I can select and use finishing techniques to strengthen and improve the appearance of my product, using a range of equipment and drawing upon, where appropriate, internet research.</p>	<p>I can reflect on the progress of my work as I design and make, identifying ways to improve my products.</p> <p>I can carry out appropriate tests before making any changes if necessary.</p> <p>I can recognise that the quality of a product depends on how well it is made and how well it meets its intended purpose.</p>	<p>I know how the working characteristics of materials affect the ways they are used.</p> <p>I know how materials can be combined and mixed to create more useful properties [for example, using cardboard triangles on the corners of a wooden framework to strengthen it].</p> <p>I know how mechanisms can be used to make things move in different ways, using a range of equipment including an ICT control program.</p> <p>I know how electrical circuits, including those with simple switches, can be used to achieve results that work.</p>