



**Juniper Hill School Design and Technology Progression of Knowledge and Skills**

	<b>EYFS</b>	<b>Year 1</b>	<b>Year2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>Developing, planning and communicating ideas.</b>	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>- I can develop my own ideas and then decide which materials to use to express them.</li> <li>- I know that things change once cooked.</li> <li>- I know the difference between sweet and savory.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can explore different materials, in order to develop my ideas about how to use them and what to make.</li> </ul>	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>- I know how to draw on my own experience to help generate ideas</li> <li>- I can suggest ideas and explain what I am going to do</li> <li>- I can Identify a target group for what I intend to design and make.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can model my ideas in card and paper</li> <li>- I am able to develop my design ideas by applying findings from earlier research</li> </ul>	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>- I know how to generate ideas by drawing on my own and other people's experiences</li> <li>- I know how to develop my design ideas through discussion, observation, drawing and modelling.</li> <li>- I can identify a purpose for what I intend to design and make</li> <li>- I can Identify simple design criteria</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can make simple drawings and label parts</li> </ul>	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>- I know how to generate ideas for an item considering its purpose and the user/s</li> <li>- I know how to identify a purpose and establish criteria for a successful product.</li> <li>- I know how to plan the order of my work before starting.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can explore, develop and communicate design proposals by modelling ideas</li> <li>- I can make drawings with labels when designing</li> </ul>	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>- I know how to generate ideas, considering the purposes for which they are designing</li> <li>- I know how to develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail</li> <li>- I can evaluate products and identify criteria that can be used for my own designs</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I am able to make labelled drawings from different views showing specific features</li> </ul>	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>- I know how to generate ideas through brainstorming and identify a purpose for their product</li> <li>- I know how to develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I am able to use results of investigations, information sources, including ICT when developing design ideas</li> </ul>	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>- I know how to communicate my ideas through detailed labelled drawings.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can explore, develop and communicate aspects of my design proposals by modelling my ideas in a variety of ways.</li> <li>- I can plan the order of their work, choosing appropriate materials, tools and techniques.</li> <li>- I can develop a design specification.</li> </ul>



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						-I can draw up a specification for my design	
<p><b>Working with tools, equipment, materials and components to make quality products (inc food)</b></p>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>-I can join different materials and explore different textures.</li> <li>-I can use different types of glue for different purposes.</li> <li>-I can use spilt pins to join materials and to allow movement.</li> <li>- Develop basic sewing skills using threading toys and other threading resources such as buttons and beads</li> <li>-I can use cutting tools: scissors, patterned scissors and hole punch.</li> <li>- I can mix, spread and pour ingredients.</li> <li>- I can make my own sandwich.</li> <li>-I can decorate cakes and pizzas.</li> </ul>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can make my design using appropriate techniques</li> <li>- I am able with help to measure, mark out, cut and shape a range of materials</li> <li>- I can use tools e.g. scissors and a hole punch safely - Assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape</li> <li>- I can select and use appropriate fruit and vegetables, processes and tools</li> <li>- I am able to use basic food handling, hygienic</li> </ul>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I have begun to select tools and materials; use vocab' to name and describe them</li> <li>- I can measure, cut and score with some accuracy</li> <li>- I can use hand tools safely and appropriately</li> <li>- I am able to assemble, join and combine materials in order to make a product</li> <li>- I can cut, shape and join fabric to make a simple garment. Using basic sewing techniques</li> <li>- I am able to follow safe procedures for food safety and hygiene</li> <li>- I can choose and use appropriate</li> </ul>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can select tools and techniques for making my product</li> <li>- I am able to measure, mark out, cut, score and assemble components with more accuracy</li> <li>- I can work safely and accurately with a range of simple tools</li> <li>- I can think about my ideas as I make progress and I am willing to change things if this helps me to improve my work</li> <li>- I can measure, tape or pin, cut and join fabric with some accuracy</li> <li>- I can demonstrate hygienic food preparation and storage</li> </ul>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can select appropriate tools and techniques for making my product</li> <li>- I can measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques.</li> <li>- I can Join and combine materials and components accurately in temporary and permanent ways</li> <li>- I am able to sew using a range of different stitches, weave and knit</li> <li>- I can measure, tape or pin, cut and join fabric with some accuracy</li> <li>- I am able to use simple graphical communication techniques</li> </ul>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can select appropriate materials, tools and techniques</li> <li>- I can measure and mark out accurately</li> <li>- I can use different tools and equipment safely and accurately</li> <li>-I am able to weigh and measure accurately (time, dry ingredients, liquids)</li> <li>- I am able to apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens</li> <li>- I can cut and join with accuracy to ensure a good-quality finish to my product</li> </ul>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>- I can select appropriate tools, materials, components and techniques</li> <li>- I am able to assemble components and make working models</li> <li>- I can use tools safely and accurately</li> <li>- I am able to construct products using permanent joining techniques</li> <li>- I can make modifications as I go along</li> <li>- I can pin, sew and stitch materials together to create a product</li> <li>- I am able to achieve a quality product</li> </ul>



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		practices and personal hygiene - I can use simple finishing techniques to improve the appearance of my product	finishing techniques	- I am able to use finishing techniques to strengthen and improve the appearance of my product using a range of equipment including ICT			
<b>Evaluating processes and products</b>	- I can return to and build on my previous learning, refining my ideas. - I am beginning to develop ways to represent my ideas. - I can share my creations, explaining the process I have used.	- I can evaluate my product by discussing how well it works in relation to the purpose. - I can evaluate my products as they are developed, identifying strengths and possible changes I might make. - I can evaluate my product by asking questions about what I have made and how I have gone about it.	- I can evaluate against my design criteria - I can evaluate my products as they are developed, identifying strengths and possible changes I might make - I can talk about my ideas, saying what they like and dislike about them.	- I can evaluate my product against original design criteria e.g. how well it meets its intended purpose - I can disassemble and evaluate familiar products	- I can evaluate my work both during and at the end of the assignment - I can evaluate my product carrying out appropriate tests	- I can evaluate a product against the original design specification - I can evaluate my product personally and seek evaluation from others	- I can evaluate my products identifying strengths and areas for development, and carrying out appropriate tests. - I am able to record my evaluations using drawings with labels. - I can evaluate against my original criteria and suggest ways that my product could be improved.