Design and Technology Progression Map

|  | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Design, make evaluate and improve | Provide children with a range of materials for children to construct with. Encourage them to think about and discuss what they want to make. Discuss problems and how they might be solved as they arise. Reflect with children on how they have achieved their aims. | Design products that have a definite function for a particular person. | Design and make products, modifying the product as the project evolves. | Produce designs with a clear purpose having explored needs, food packaging. <br> Select materials carefully to suit the design and use. | Refine methods and design as work progresses, constantly reassessing design. Use computer packages to design and model products. | Design by considering the user, prioritising good function before profit. Produce several prototypes each building upon the previous to optimise design. | Produce a good quality finish to products using art techniques |
| Food | Exposure to healthy alternatives, fruit and vegetables. | Select from and use ingredients according to their characteristics. (fruit kebab) | Safely cut, peel or grate ingredients in a hygienic manner. Use measuring cups or electronic scales to measure the required amounts. Combine ingredients to produce food. | Use correct utensils to hygienically prepare food. <br> Combine and or cook. |  |  | Understand how to store and handle food ingredients properly. Invent and modify own recipes including ingredients, methods, cooking times and temperatures. |
| Textiles | Exposure to different materials in different forms and the vocabulary to describe them. | Use a running stitch to join fabric. <br> Use methods such as dyeing, adding sequins or printing alter the appearance of fabric. Make use of template to produce shapes. |  | Use the correct stitch to join materials. Add decorative finish using a suitable technique. | Use suitable cutting and shaping techniques. Choose suitable joining techniques. | Use a variety of stitching techniques to join fabrics. |  |
| Construction | Build and join for varied purposes using different materials; <br> K'nex <br> Lego <br> Stickle Bricks <br> wooden sticks <br> jigsaws <br> Teach children different techniques for joining materials, such as how to use adhesive tape and different sorts of glue. | Practice techniques to join and/or strengthen materials eg, glueing and reinforcing card. | Demonstrate safe use of a given tool. <br> Perform a range of cutting and shaping techniques eg tearing, cutting, folding and curling. <br> Use a range of joining techniques eg gluing, hinges or combining materials to strengthen. | Select appropriate techniques to construct products. |  | Practice practical skills to a reasonable standard to produce products.. | Cut with precision and produce a good finish. Select appropriate tools to cut and shape a particular type of material. |


| Mechanics |  |  | Explore and use <br> mechanisms in their <br> products, wheels and <br> axles | Apply understanding of <br> forces to select a <br> suitable mechanism eg <br> levers, winding <br> mechanism, pulleys and <br> gears. | Apply understanding of <br> forces to select a <br> suitable mechanism eg <br> levers, winding <br> mechanism, pulleys <br> and gears. | Combine electronics <br> and mechanics to <br> produce original <br> designs. <br> Use cams to change a <br> rotation into a push/pull <br> movement |
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| Electrical |  |  |  |  | Construct series and <br> parallel circuits | Create circuits using <br> electronicu kits that <br> combine a number of parts <br> (e.g. LEDs, resistors, chips |
| etc.) |  |  |  |  |  |  |

