LONGTON LANE PRIMARY SCHOOL DESIGN TECHNOLOGY YEAR 6

*‘Believe and Achieve’*

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| National Curriculum Subject ContentDesign  * use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups **11** * generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design **12**  Make  * select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately **13** * select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities **14**  Evaluate  * investigate and analyse a range of existing products **15** * evaluate their ideas and products against their own design criteria and consider the views of others to improve their work **16** * understand how key events and individuals in design and technology have helped shape the world **17**  Technical knowledge  * apply their understanding of how to strengthen, stiffen and reinforce more complex structures **18**  Cooking and Nutrition  * understand and apply the principles of a healthy and varied diet * prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques * understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. **22** |

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| **Recyclable Fashion** | **Cooking and Nutrition**  **Ready Steady Cook (given ingredients)** | **Fairground Ride**  **Computer programme to control / monitor** |
| Use a range of information and market research to inform their design / plan  Work within constraints  Follow and refine their plan if necessary  Justify their plan to someone else  Consider culture and society in their designs  Use tools and materials precisely and with expertise  Change the way they are working if needed  Test and evaluate their final product  Ensure product is fit for purpose  Suggest improvements to ensure design criteria are met  Consider the use of the product when selecting materials  Think about how their product could be sold  Consider what would improve their product even more  Justify why they selected specific materials  Ensure that their work is precise and accurate  Hide joints so to improve the look of their product | Use a range of information and market research to inform their design / plan  Work within constraints  Follow and refine their plan if necessary  Justify their plan to someone else  Use tools and materials precisely and with expertise  Change the way they are working if needed  Test and evaluate their final product  Ensure product is fit for purpose  Suggest improvements to ensure design criteria are met  Explain how their product should be stored with reasons  Explain how they could grow their own products to make a meal, accounting for time required to grow different foods | Use a range of information and market research to inform their design / plan  Work within constraints  Follow and refine their plan if necessary  Justify their plan to someone else  Use tools and materials precisely and with expertise  Change the way they are working if needed  Test and evaluate their final product  Ensure product is fit for purpose  Suggest improvements to ensure design criteria are met  Consider the use of the product when selecting materials  Apply their understanding of computing to program, monitor and control their products  Think of ways in which adding a circuit would improve their product  Justify why they selected specific materials  Ensure that their work is precise and accurate  Hide joints soto improve the look of their product |

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| **Developing, planning and communicating ideas** | **Working with tools, equipment, materials and components to make quality products** | **Evaluating processes and products** | **Cooking and nutrition** | **Textiles** | **Electrical and mechanical components** | **Stiff and flexible sheet materials** |