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 / planWork within constraintsFollow and refine their plan if necessaryJustify their plan to someone elseConsider culture and society in their designsUse tools and materials precisely and with expertiseChange the way they are working if neededTest and evaluate their final product Ensure product is fit for purposeSuggest improvements to ensure design criteria are metConsider the use of the product when selecting materialsThink about how their product could be soldConsider what would improve their product even moreJustify why they selected specific materialsEnsure that their work is precise and accurateHide joints so to improve the look of their product | Use a range of information and market research to inform their design / planWork within constraintsFollow and refine their plan if necessaryJustify their plan to someone elseUse tools and materials precisely and with expertiseChange the way they are working if neededTest and evaluate their final product Ensure product is fit for purposeSuggest improvements to ensure design criteria are metExplain how their product should be stored with reasonsExplain 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 / planWork within constraintsFollow and refine their plan if necessaryJustify their plan to someone elseUse tools and materials precisely and with expertiseChange the way they are working if neededTest and evaluate their final product Ensure product is fit for purposeSuggest improvements to ensure design criteria are metConsider the use of the product when selecting materialsApply their understanding of computing to program, monitor and control their productsThink of ways in which adding a circuit would improve their productJustify why they selected specific materialsEnsure that their work is precise and accurateHide 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** |