**Rock Ferry Primary School Design and Technology Long Term Overview – Year 1**

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|  | **Target Tracker Assessment Focus** | **Weaving Knowledge, Skills and Understanding** |
| **Cooking and Nutrition: Hot/Cold food** | | |
|  | * Talk about what he/she eats at home and begin to discuss what healthy foods are * Say where some food comes from and give examples of food that is grown * Use simple tools with help to prepare food safely | During KS1 pupils should be taught to:   * Use the basic principles of a healthy and varied diet to prepare dishes * Understand where food comes from   Breadth of study:   * Can they cut food safely? * Can they describe the texture of foods? * Do they wash their hands and make sure that surfaces are clean? |
| **Processes: ‘Nibbles’ toy/ Photo frame/ Moving pictures** | | |
| **Developing, planning and communicating ideas** | * Create simple designs for a product * Use pictures and words to describe what he/she wants to do | During KS1 pupils should be taught to:   * Design purposeful, functional, appealing products for themselves and other users based on design criteria * Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology   Breadth of study:   * Can they think of some ideas of their own? * Can they explain what they want to do? * Can they use pictures and words to plan? |
| **Working with tools, equipment, materials and components to make quality products**  **Textiles**  **Use of materials** | * Select from and use a range of tools and equipment to perform practical tasks eg cutting, shaping, joining and finishing * Use a range of simple tools to cut, join and combine materials and components safely | During KS1 pupils should be taught to:   * Select from and use a range of tools and equipment to perform practical tasks, (for example, cutting, shaping, joining and finishing) * Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.   Breadth of study:   * Can they explain what they are making? * Can they explain what tools they are using? * Can they describe how different textiles feel? * Can they make a product from textiles by gluing? * Can they make a structure/model using different materials? * Is their work tidy? * Can they make their model stronger if needs be? |

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|  | **Target Tracker Assessment Focus** | **Weaving Knowledge, Skills and Understanding** |
| **Evaluating processes and products** | * Ask simple questions about existing products and those that he/she has made | During KS1 pupils should be taught to:   * Explore and evaluate a range of existing products * Evaluate their ideas and products against design criteria   Breadth of study:   * Can they describe how something works? * Can they talk about their own work and things that other people have done? |
| **Mechanisms** | * Explore and use mechanisms eg levers, sliders, in his/her products | During KS1 pupils should be taught to:   * Explore and use mechanisms (for example levers and sliders), in their products   Breadth of study:   * Can they make a product which moves? * Can they cut materials using scissors? * Can they describe the materials using different words? * Can they say why they have chosen moving parts? |
| **Construction** | * Build structures, exploring how they can be made stronger, stiffer and more stable | During KS1 pupils should be taught to:   * Build structures, exploring how they can be made stronger, stiffer and more stable   Breadth of study:   * Can they talk with others about how they want to construct their product? * Can they select appropriate resources and tools for their building projects? * Can they make simple plans before making objects eg drawings, arranging pieces of construction before building? |

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| **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
|  | **Textiles** | **Food** | **Construction** |  | **Mechanisms** |
|  | Design & make ‘Nibbles’ | Hot/cold food | Design & make photo frame |  | Moving pictures |