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|  | **AUTUMN TERM** | **SPRING TERM** | **SUMMER TERM** |
| **YEAR R** | In Year R children will be asked to think about:  **User**- who is it for, who will use it?  **Purpose-** What is for? Who will it be used?  **Function-** Is it strong? How does it work/help?  **Aesthetics**- What does it look like? | | |
| **YEAR 1** | Geography Topic- Our Village- Catherington  Science focus- Animals  **DT FOCUS**  **Mechanisms**- Sliders and Levers  **Purpose**- Educational book about animals  **Product**- Information book on animals with moving parts.  **Problem**- Visitors to our school need some information about animals in Catherington? | Science Focus- Materials  **DT FOCUS**  **Structures**- Freestanding structures  **Purpose-**  To keep them safe from the troll under the bridge.  **Product-** A bridge  **Problem-** The Gruffs need to cross a bridge to get to the greener grass. | PSHE FOCUS- Caring for ourselves  **DT FOCUS**  **Food-** Preparing fruits and Vegetables (including cooking and nutrition requirements for KS1)  **Purpose**- To learn how to use British produce to make a healthy dessert.  **Product**- Yoghurt dessert with fresh fruit.  **Problem**- Design a yoghurt dessert for the late Queen. |
| **YEAR 2** | Geography Focus- Portsmouth- Comparing a village and a city.  **DT FOCUS**  **Mechanisms**- Wheels and Axles  Purpose- Create a moveable product that can carry and transport table stationary from one end to another.  Product- A wheeled stationary pot carrier  Problem- Children can’t always access table stationary when sat at the wrong end of the table. | Science focus- Animal life cycles  PSHE- My body is important  **DT FOCUS**  **Food**- Preparing fruits and Vegetables (including cooking and nutrition requirements for KS1)  Purpose- To design, make and evaluate a healthy snack for the class party  Product- A healthy snack  Problem- Children need to celebrate healthy eating week with class party. | Science focus- Pushes and Pulls and their effects  **DT FOCUS**  **Textiles**- Templates and joining techniques  Purpose- Create a memorial blanket to remember Year 2 children.  Product- Memorial blanket  Problem-We need a backdrop for the Year 2 graduation. |

When designing and making, pupils should be taught to:

**Design**

 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

**Make**

 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

**Evaluate**

 explore and evaluate a range of existing products

 evaluate their ideas and products against design criteria

**Technical knowledge**

 build structures, exploring how they can be made stronger, stiffer and more stable

 explore and use mechanisms [for example, levers, sliders, wheels and axles], in their

products.

**Cooking and Nutrition**

Use the basic principles of a healthy and varied diet to prepare dishes

Understand where food comes from