**Langdon Primary School – Progression in Design and Technology (2019)**



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| --- | --- | --- | --- | --- |
|  | Year R | Years 1 and 2 | Years 3 and 4 | Years 5 and 6 |
| Design | * Talk about what they want to make * Draw what they want to make | * Talk about what they want to make * Plan and draw what they want to make and for a set task | * Research existing products (eg research existing bridges before designing their own) * Plan and design a product linked to a set task. | * Research existing products (eg research existing bridges before designing their own) * Plan and design a product linked to a set task. * Plan products that are fit for purpose * Create prototypes |
| Make | * Experience a range of tools (eg clay tools, scissors, cutlery) * Experience a range of construction toys and materials (eg Lego, Duplo, bricks) | * Select a range of materials, tools and equipment (eg staples, split pins, hammer, nails) * Give reasons for their choices | * Select a range of materials, tools and equipment (eg clamping vice, hot glue guns, hand drills) * Give reasons for their choices | * Select a range of materials, tools and equipment (eg gears, pulleys, wood tools, saws and cutting tools)) * Give reasons for their choices |
| Evaluate | * Talk about what they have made * Discuss what works and whether it is as they had expected | * Evaluate their product against their design * Evaluate their product against the criterion * Discuss improvements that could be made | * Make judgements about their product * Identify what is good and say why * Explain improvements that could be made | * Make links between their product and products in the real world * Consider the views of others * Compare to existing designs and products |
| Technical Knowledge | * To have experience of playing with different materials and techniques (eg sand, water, cutting and sticking) * To explore and use simple mechanisms (eg levers, sliders, wheels, axles) | * To be able to use and make simple joining techniques * To be able to use and make simple mechanisms (eg levers, sliders, wheels, axles) | * Knowledge of electrical circuits * To be able to independently understand and use mechanical gears, levers and pulleys * To know which tools and materials are suitable for which task | * Knowledge of electrical circuits * To be able to independently understand and use mechanical gears, levers and pulleys * To know which tools and materials are suitable for which task * To understand how to modify complex structures |
| Cooking and Nutrition | * To play with toy food * Cut up and eat packed lunches/school dinners * Sort food- healthy/unhealthy | * Understand where food comes from * Simple food chains * Select ingredients and prepare simple meals (eg sandwiches, pizza) | * Show awareness of affordable and seasonal foods * Understand principles of a varied and healthy diet * Prepare and cook dishes | * Understand which foods are imported/exported * Understand where and how a variety of ingredients are grown, reared, caught and processed * Prepare and cook dishes using different techniques * Adapt and modify recipes |