Design Technology Long Term Plan

Class 3 ( Year 3&4 )

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|  | Autumn 2 | Spring 2    Textiles: Fastenings  Building upon their sewing skills from previous years, this topic sees the children designing and creating a product; exploring a variety of fastenings and selecting the most appropriate one for their design. | Summer 2  Mechanical Systems: (Links with Forces)  Children will explore different types of mechanical systems and will design a mechanism of their own. Children will learn how to evaluate their products. |
| 2023 – 2024 | Food: Adapting a recipe  Children work in groups to adapt an existing biscuit recipe, to create the tastiest biscuit. While making they will also ensure that their creation comes within the given budget of overheads and costs of ingredients. |
| 2024 – 2025 | Electrical systems: Torches (links with Electricity)  In this topic, children apply their scientific understanding of electrical circuits to create a product that requires an electrical circuit torch made from easily available materials and objects. They will also design and evaluate their product against set design criteria. | Structure: Pavilions  Construction- choose suitable techniques to construct, repair and strengthen items. | Summer 1  Digital world: Mindful moments timer  Children design, program, prototype and brand a Micro:bit mindful moments timer, to a specified amount of minutes. They carry out research and existing product analysis to determine how a programmable product may be used to aid a mindfulness moment. (link with Computing)  Summer 2  Food: Eating seasonally (Links with Plants)  Learn about various fruits and vegetables, and when, where and why they are grown in different seasons. Discover the relationship between colour and health benefits. |