Year 5

Subject Name:	Design & Technology

Curriculum Intent Statement

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

Autumn Term 1

N/A

Autumn Term 2

Unit Name – Learning about rockets and how to create a mechanical circuit inside the rocket which generates light for lift off

Key objectives:

- You will be able to use a range of information to inform my design
- You will be able to use market research to inform plans
- You will be able to use exploded diagrams to show my designs
- You will be able to test and evaluate your final product
- You will be able to say if your product is fit for purpose
- You will be able to evaluate what would improve it
- You will be able to understand and use electrical systems in your products, such as series circuits incorporating switches, bulbs, buzzers and motors
- BLG (Impact): All of these skills and knowledge will allow you to make a rocket which has working lights.

Spring Term 1

N/A

Spring Term 2
N/A
Summer Term 1
Unit Name – Tower of London **Key objectives:** • To model their ideas for their own product using mechanisms, by using construction kits or making a model from a set of instructions. • To include an electric motor in a simple circuit • To know that the direction of rotation and speed of an electric motor can be controlled. • To know that the rotation can be transferred from one part of a model to another by using pulleys and a belt • To know how a belt and pulley system can reverse the direction of rotation (by twisting the belt through 180 degrees) • To know how a belt and pulley system can turn the plane of rotation through 90 degrees (by twisting the belt through 90 degrees) • BLG: To experiment with different materials to design and make a tower.
Summer Term 2
Unit Name – Making Pizza **Key objectives:** • Cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet. • To become competent in a range of cooking techniques [for example, selecting and preparing ingredients; using utensils and electrical equipment; applying heat in different ways; using awareness of taste, texture and smell to decide how to season dishes and combine ingredients; adapting and using their own recipes] • To understand the source, seasonality and characteristics of a broad range of ingredients