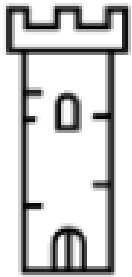


DESIGN TECHNOLOGY LONG TERM PLAN CYCLE B

YEARS 1 & 2		
AUTUMN	<p>Y2 Textiles Block A In this block, pupils will learn how to use a template to create a simple patchwork by repurposing clothing to create something practical and useful. They will develop their skills using a needle and thread to create small, even stitches.</p>	<p>Y2 Food and Nutrition Block B (Sci Living things) In this unit, pupils will consider what being healthy means. They will learn that eating a variety of vegetables provides the body with the nutrients it needs. They will make products that use a range of vegetables and minimally processed foods.</p>
	YEARS 3 & 4	
	<p>Y4 Food and Nutrition Block A In this unit, pupils will explore the difference between freshly made food and mass-produced food. The unit will focus on common foods that are part of a healthy diet but are often bought premade and can contribute to poor physical and mental health.</p>	<p>Y4 Mechanisms Block B In this block, pupils will investigate how hinges work. They will then select a range of modelling materials and tools to make their own hinged products, evaluating and modifying them throughout.</p>
	YEARS 5 & 6	
	<p>Y6 Food and Nutrition Block A Writing – Discursive writing and speeches In this block, pupils will study and make street foods from different cultures. The aim of these sessions is to encourage pupils to think about their own diet and snacks and how their nutritional value could be improved. The block provides an opportunity for pupils to learn about a range of different cultures.</p>	<p>Y6 Mechanisms Block B In this block, pupils will investigate how pulleys and gears work and design and make their own gears product. Pupils will select and use a variety of modelling materials to create final outcomes.</p>
		

CYCLE B

YEARS 1 & 2

Y2 Mechanisms Block C

In this block, pupils will learn how wheels and axles work together. They will build simple wheel mechanisms. They will explore how the size of the wheel and position of the axles affects the movement of simple vehicles.

Y2 Materials Block D

(Sci Use of Everyday materials)

In this block, pupils will investigate materials to discover whether they absorb or resist water. Pupils will also use wax or oil crayons to create a waterproof coating for a paper hat which they have made by creasing and folding a sheet of paper.

YEARS 3 & 4

Y4 Textiles Block C

In this block, pupils will learn how to sew a button onto fabric. They will identify the different functions of fastenings and reflect on the advantages or disadvantages of using certain fasteners. They will also create a solution to the problem of a towel slipping off a hook.

Y4 Structures Block D

In this block, pupils will explore which shapes can be used to provide stability in structures. They will use a range of materials to investigate 3D shapes and in Lesson 3 they will collaborate on a class geodesic dome structure

YEARS 5 & 6

Y6 Food and Nutrition Block C

Pupils will learn how to cook foods that are often pre-made and processed. They will learn and apply techniques to make dishes designed to help improve energy levels, mood and future health.

Y6 Structures Block D

In this block, pupils will test the strength of spaghetti and then apply what they have learned to construct a tower that is at least one metre tall.

SPRING



CYCLE B

YEARS 1 & 2

Y2 Food and Nutrition Block E

Pupils will learn how foods that are pre-made and processed can often be unhealthy. This block lets pupils practise skills and make food that will help improve their energy, mood and future health.

Y2 Structures Block F

In this unit, pupils will discover that they can increase the strength and stability of paper by folding. They will test and record their paper structures and design a paper tower that is at least 50cm tall and can bear a 1kg weight.

YEARS 3 & 4

Y4 Electrical systems Block E (Science Electricity)

In this block, pupils will learn how different types of switches work within electrical circuits and how these can be used to perform a function in a product.

Y4 Food and Nutrition Block F

(Science – Animals including humans)

In this block, pupils will learn how to make healthy food from low-cost ingredients. They will start to consider how cheap processed foods will affect their diet and health in later life .

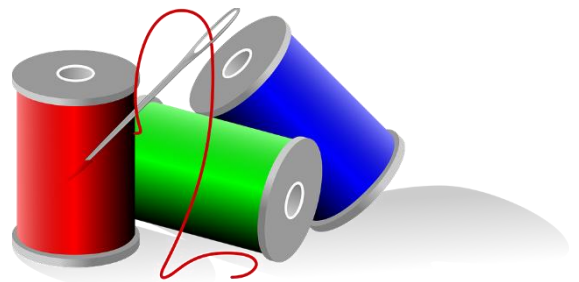
YEARS 5 & 6

Y6 Electrical systems Block E *Science – Electricity*

In this block, pupils will learn how switches can be combined with electrical components in different ways to change the functionality of a product.

Y6 Textiles Block F

In this block, pupils will learn how they can reduce waste by recycling and repurposing snack packets and plastic bags into useful items.



SUMMER