



Kilmington Primary School Design Technology Overview



Jackdaws Design Technology Overview

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Year A	<p>Structures: Constructing a castle (Year 3)</p> <ul style="list-style-type: none"> The features of a castle: learn and name the features of a castle, and use 3D shapes to design one Designing a castle: to create a design specification, thinking about the purpose or person my castle will be designed for. Nets and Structures: construct nets to make 3D shapes to use in the construction of a castle. Building a castle: making and attaching the specific features of the castle designs and decorating them. Construct and evaluate the castle. 	<p>Mechanical Systems: Making a slingshot car (Year 4)</p> <ul style="list-style-type: none"> Chassis and Launch mechanism: To use a range of materials to make a chassis and the sling shot launch mechanism and learn that the cars work by storing kinetic energy in the elastic band before it launches. Designing the car body: To understand that the shape of a car body can either increase or decrease the speed it travels, and then design car bodies to cover the chassis. Making the car body: to make nets based on their designs, and add graphics and tabs that will attach to the chassis. Assembly and Testing: Carry out trials and other competitions to test and compare the cars. 	<p>Textiles: Cross stitch and applique (Year 3)</p> <ul style="list-style-type: none"> New techniques, and recap needle skills from Year 2: To learn and use a cross-stitch technique and applique. Egyptian collars: Learn about Ancient Egyptian collars to develop, design and use a template for a collar. Developing the collar: Use templates to cut fabric to form the base of the collar. Cut and shape fabric parts accurately and use stitches to assemble them into a fabric product. Finishing the collar: Decorating the collars using a variety of techniques, including appliqué, pinking and adding embellishments.
Year B	<p>Textiles: Fastenings (Year 4)</p> <ul style="list-style-type: none"> Evaluating Fastenings: to explore different types of fastenings and explain the advantages and disadvantages of each type. Designing my book sleeve: To write a design criteria and select a style of book sleeve which includes a fastening, and draw this design on paper. Paper mock-up and preparing fabric: to create a mock-up out of paper to use as a template to test the design of the book sleeve. Assemble the book sleeve: to stick to the design criteria and use sewing to join fabric to assemble the book sleeve. 	<p>Cooking and Nutrition: Adapting a recipe (Year 4)</p> <ul style="list-style-type: none"> Existing biscuits: to evaluate existing biscuits (taste, texture, target audience) and their packaging (target audience) to create a frame of reference Basic biscuits: to follow simple food safety and hygiene rules to prepare and cook a dish by following a recipe. Budgeting: To select ingredients for a target audience which follows a budget, and to create a recipe and a design for a final product. Packaging: to create packaging for a final product which takes inspiration from existing products; create a cuboid net design for a biscuit box. Market research: make and taste a prototype biscuit, and collect feedback from a member of the target audience. Evaluating biscuits: to create a criteria for evaluation, in order to evaluate biscuits and celebrate uniqueness. 	<p>Electrical Systems: Electronic Poster (Year 3)</p> <ul style="list-style-type: none"> Information design: develop an understanding of information design with examples on how we display information to the public and what we use to learn about and navigate the world. Topic research: to understand how information design is used in museums and using research criteria to develop ideas that meet design criteria Design development: To review and develop ideas against design criteria and give constructive feedback Electric poster assembly: Develop an understanding of electrical systems and circuit components whilst assembling an electric poster with a simple circuit and bulb.