



DESIGN TECHNOLOGY LONG TERM OVERVIEW 2019-20

	Autumn 'In The Forest'	Spring 'Oceans'	Summer 'Heroes'
YEAR ONE	<p><i>As design technologists, children will:</i></p> <ul style="list-style-type: none"> -design appealing products for themselves and others based on design criteria (colour themed fabric decoration in a chosen shape) -communicate their ideas through talking and drawing about different options -use tools and equipment to cut out a template of the class's chosen shape -select from a wide range of textiles when deciding which decoration to make and how to dye it the assigned colour -explore and evaluate current tree dressing designs on the internet 	<p><i>As design technologists, children will:</i></p> <ul style="list-style-type: none"> -explore and evaluate a range of traditional foods by tasting selected ones -use a wide range of ingredients to prepare a class dish of choice -use appropriate equipment to prepare a simple dish -understand where food in traditional British dishes comes from -evaluate their creations against original recipe 	<p><i>As design technologists, children will:</i></p> <ul style="list-style-type: none"> -design a 3D product based on design criteria of a Tudor house -model and communicate their ideas through talking, drawing and class mock ups -use a range of tools and equipment to cut and join materials together and to 'finish' the design -use a wide range of construction materials -build structures, exploring how they can be made stronger, stiffer and more stable -evaluate houses against original design criteria

STIMULUS	Celebrate the joy of nature and our local area through World Tree Dressing Day by working towards a class project (Tree Dressing Day is 1 st December). Each class will be assigned a colour and must decide on a shape that represents this colour (e.g. red heart, yellow sun...) They will be provided with several pieces of fabric and, as a class, must test out which one would be best for dyeing the most vibrant colour to stand out on the tree. Once the fabric is decided, the teacher will create templates of the chosen shape. Children will draw around the template, cut it out and decide how it will be attached to the tree. Fabric will be dyed as a class. Each coloured tree will become The Rainbow Trail at the area in front of school and will be used for the children's geography fieldwork activities in Autumn 2.	Celebrate the food of the United Kingdom by learning about traditional dishes in England, Scotland, Wales and Ireland. They will learn about where the ingredients for these dishes come from and prepare a meal from the class's country of choice. England – e.g. roast dinner, fish and chips, English breakfast Wales – e.g. rarebit, Bara Brith, leek soup Scotland – e.g. haggis, neeps and tatties, porridge, shortbread Ireland – e.g. soda bread, Irish stew, colcannon, barmbrack	Complete a project to make an individual Tudor house which uses the whole cycle of DT with a focus on developing technical knowledge of building structures with a range of materials and evaluating them. Links will be made with prior learning about materials and their uses in Science. Parents will be invited to make the houses with their children and a local firefighter will visit to create a Great Fire and put it out!
VOCABULARY	revisit Science vocabulary about trees, celebration, design, decoration, colour, fabric, textiles, dye, evaluate, trail, attach, template	traditional, ingredients, recipe, taste, prepare, chop, cut, slice, healthy, diet, farmland, crops, soil, vocabulary linked to dishes chosen	two dimensional, three dimensional, model, cut, join, finish, construction, cardboard, stiff, corrugated, stable, structure, Tudor
ADDITIONAL MINI PROJECTS	Make a Christmas card with a slider as part of a moving picture	Create a whole school display using recycled plastics to highlight our learning about protecting the marine life in the oceans	



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	Autumn 'In The Forest'	Spring 'Oceans'	Summer 'Heroes'
YEAR TWO	<p><i>As design technologists, children will:</i></p> <ul style="list-style-type: none"> -design appealing products for themselves and others based on design criteria -generate, develop and model their ideas through creating templates and mock ups -use tools and equipment to perform practical cutting and shaping tasks -use a range of materials including textiles -explore and evaluate a range of existing tree decorations 	<p><i>As design technologists, children will:</i></p> <ul style="list-style-type: none"> -design a purposeful healthy meal from another culture based on recipes they have read and sample foods they have tasted -understand the need for a balanced diet by discussing food groups and why each one is essential for development -use kitchen utensils to prepare the food carefully and safely -maintain food hygiene at all times (Science link) -use a range of ingredients and know where these come from, including country of origin -evaluate another group's dish against their original design criteria 	<p><i>As design technologists, children will:</i></p> <ul style="list-style-type: none"> -design functional products based on design criteria -explore a range of wheeled items to investigate how wheels and axles work before incorporating them into their design -generate their designs using ICT -revise scientific learning by considering which materials would be best, based on their properties -make their wheeled item using a range of materials and a working mechanism -evaluate and test out their product, presenting to classmates how they designed and produced it and what they would do differently next time

STIMULUS	Celebrate the joy of nature and our local area through World Tree Dressing Day by working towards a class project (Tree Dressing Day is 1 st December). Each class will be assigned a colour and children will design their own tree decoration of something which traditionally has this colour. They will be provided with several materials (fabric among others) and, as a class, must discuss and test out which one would be best for dyeing the most vibrant colour to stand out on the tree and which would withstand the weather. Once the material is decided, children will draw out their own cardboard template, cut it out, transfer to fabric and decide how it will be attached to the tree. Material will be dyed individually. Each coloured tree will become The Rainbow Trail at the area in front of school and will be used for geography fieldwork activities.	Celebrate the traditional food of the country they are studying in Geography by tasting it, finding out where it comes from and how it can contribute to a healthy, balanced diet. They will then make a traditional dish in groups. Africa – e.g. Kachumbari, Rice Meal, Papaya and Mango fruit salad China – e.g. dumplings, spring rolls, chow mein India – e.g. popadoms, naan bread, chutney, samosas	Celebrate their learning about Heroes in History by designing and creating a product that would have assisted Florence Nightingale in her work as nurse, based on developments in nursing since Victorian times. The brief is to design a wheeled piece of hospital equipment (e.g. a trolley to deliver the medicines along the very long wards, stretcher on wheels to move injured soldiers...)
VOCABULARY	generate, template, mock-up, model, functional, criteria, cotton, linen, nylon, satin, felt, equipment, installation, lever, pivot	culture, food hygiene, food safety, food sampling, origin, utensils, balanced diet, carbohydrates, protein, fats, vegetables, fruit, vitamins, minerals	wheel, axle, axle holder, chassis, body, dowel, assemble, incorporate, fixed, free, mechanism
ADDITIONAL MINI PROJECTS	Make and join together a string of felt poppies to create an installation at the War Memorial (History link) Make a Christmas card using a lever and pivot point	Create a whole school display using recycled plastics to highlight our learning about protecting the marine life in the oceans	