





Key: Mechanisms, Construction and Electronics Sheet Materials Cooking and Nutrition Textiles Not Covered Career Links						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Stage 1						
Year 1	What makes me me?	How would you rebuild London after the Great Fire?	Were children happier in the olden days?	Which animal is king of the carnival?	What is growing in our garden?	What is Special about Great British seaside?
	<p>Children will begin the year by exploring joining techniques using glue, tape and string within their continuous provision areas.</p> <p>They will create frames for their self-portraits using materials of their choice such as sticks gathered from outdoors.</p>	<p>The children will design and make junk model buildings to help recreate the Great Fire of London. Tubes can be made for chimneys etc. The fire pit will be used safely to set the houses alight. This will be a memorable experience to help children retell the story.</p> <p>Skills:</p> <ul style="list-style-type: none"> - Folding, tearing and cutting paper - rolling paper to make tubes - joining techniques (gluing, taping) <p>Career Links: Architects Builders</p> 	<p>Children will begin to learn about where food comes from. The will begin to group familiar foods.</p> <p>Skills:</p> <ul style="list-style-type: none"> - Simple chopping, grating OR peeling - Food hygiene <p>In Year 1, they will apply their learnt skills and knowledge of food hygiene to bake/cook a favourite recipe from the past. They have baked in nursery and reception so should be confident at mixing and stirring. They will share their bakes with elderly relatives. Ideas include, cheese scones, carrot cake, apple pie.</p>	<p>Skills:</p> <ul style="list-style-type: none"> - Scissor cutting - Joining skills <p>Applying their joining skills and cutting skills, the children will create a felt animal puppet. They will use PVA glue to stick parts of their animals together such as ears.</p> <p>The Year 3 children will add button eyes onto the animals to help the children complete their puppets.</p> 	<p>Planting for next years harvesting and cooking in Year 2.</p>	<p>Applying cutting and joining skills, the children will create a pop-up/slider picture to show what is happening at the seaside. E.g. seagull flying, someone eating an ice cream, sandcastle falling up and down.</p>



<p>Year 2</p>	<p>Where does our food come from?</p> <p>In Year 2 the children will build on their knowledge from Year 1 on where food comes from, linking to continents around the world. They will be introduced to the Eatwell Plate and understand the importance of a balanced diet.</p> <p>Skills: -Claw and bridge chopping techniques - grating - peeling - Food hygiene</p> <p>The Year 2 children will design, make and evaluate a balanced packed lunch to have for lunch at school.</p>	<p>How does the north east link with Australia?</p>	<p>Who is George Stephenson and why is he so special to Darlington?</p> <p>The children will learn about the parts of a car. They will explore how free moving wheels work and the purpose of wheels, axels and a chassis.</p> <p>Skills: -Joining techniques (glue and tape) In groups, the children will create a vehicle for West Park Trials to race. The vehicle must have free moving wheels.</p> <p>Career Links: Mechanical engineers George Stephenson Amelia Earhart The Wright Brothers</p> 	<p>What makes a structure strong?</p> <p>Children will investigate which materials are strong and how to change materials to make them stronger.</p> <p>Skills: -Joining technique (hot glue gun 1:1 with supervision) -Using a hacksaw to cut wood 1:1 with supervision</p> <p>In small groups, the children will design, make and evaluate a bridge, applying the taught skills to make it strong enough to hold the weight.</p> <p>Career Links: Civil/structural engineers Architects Brunel Emily Roebling</p> 	<p>How can we become wildlife conservation Officers?</p>	<p>What does the Great Exhibition tell us about life in Britain and the British Empire at the time?</p> <p>Children will create felt bookmarks to take to Year 3. They will learn simple running stitch and use this skill to add decorative stitches in a contrasting colour to the bookmark. They can use PVA glue and scissor cutting skills from Year 1 to add decoration such as buttons, sequins, felt shapes etc. Children who are confident at sewing can be challenged by sewing two pieces of felt together.</p> <p>Skills: -joining technique (sewing) -simple running stitch 1:1</p> 
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Key Stage 2

<p>Year 3</p> <p>How can we take responsibility for making our community more healthy?</p> <p>In Year 3, the children will continue to learn about balanced diets. They will explore what food from each food group on the Eatwell Plate does to our body, focusing mainly on carbohydrates.</p> <p>Skills:</p> <ul style="list-style-type: none"> -Claw and bridge chopping techniques - grating - peeling - measure and weigh ingredients with some support - Food hygiene <p>They will select the appropriate tools and skills to use to create a pasta dish and smoothie for a client before exercise, with the aim to give nutrition and energy.</p>	<p>What was Britain like at the end of the Iron age, what had they achieved?</p>	<p>Toy Designer: How are toys and games based on science?</p> <p>Skills:</p> <ul style="list-style-type: none"> -Measure and mark out accurately -Cut accurately, selecting appropriate tools -Use appropriate joining techniques such as glue, tape -Cut slots <p>Children will use their knowledge of magnetic forces from science to create a fun game to play in pairs. They will explore and take apart games using magnets before learning about how to use cardboard and slots to create their own maze/game.</p> <p>https://www.youtube.com/watch?v=fWtB5GT9MAw</p> 	<p>What makes the Earth angry?</p> <p>Skills:</p> <ul style="list-style-type: none"> -Simple running stitch independently/small groups -adding button, ribbons or beads? <p>The DT this half term will combine with Art and the children will create a landscape picture combining different medias. They will be more confident when sewing and need less support after learning running stitch in Year 2.</p> <p>Year 1 children will be making felt animal puppets. Children to learn how to attach buttons and help the Year 1 children to complete their puppets by attaching the eyes/</p>	<p>Why was the River Nile so important to Ancient Egyptian Life?</p> <p>The children will explore and investigate how to make a structure more stable. E.g. widening the base.</p> <p>Skills:</p> <ul style="list-style-type: none"> -Using diagonal struts <p>They will build pyramid shaped dens for outdoor play in groups, using the Egyptians as inspiration and their knowledge of strengthening structures and diagonal struts. In lessons, they will discuss how lever and pulley tools were used to carry materials when Egyptians built pyramids.</p> <p>Career Links: Civil/structural engineers Architects Network Rail</p> 	<p>What is 'great' about Britain?</p>
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<p>Year 4</p>	<p>What is important to our Darling town?</p> <p>Skills: -Seam allowance -Accurate measuring -Use of templates</p> <p>The Year 4 children will design, make and evaluate their own fabric reusable bags. They will apply scissor skills and sewing skills from previous years to make sure they are fit for purpose, joining parts together. In art they will use printing to decorate their bags. The children may be supported in using a sewing machine to complete parts of the bag, understanding that technology can help us.</p>	<p>How can we make a difference through art?</p>	<p>What did the Ancient Greeks do for us?</p>	<p>How can we make our school dinners even better?</p> <p>Children will continue to learn about food groups and balanced diets. They will focus on the science of what negative impact sugar has on our teeth.</p> <p>Skills: Claw and bridge chopping techniques - grating - peeling - measure and weigh ingredients accurately and independently - Food hygiene</p> <p>Children will design, make and evaluate a homemade stew/casserole/hotpot. They will use locally sourced ingredients and select the correct utensils and equipment when preparing. They will apply skills taught in previous years and do so with more independence and accuracy.</p>	<p>How might life be different for us now if Hadrian hadn't built his wall?</p> <p>Skills: -Levers</p> <p>Mechanisms including Archimedes' Claw and modern mechanisms will be used as inspire the children when building their own catapult in pairs. They will use the level mechanism to ensure it works accurately. They can compete at the end to see which catapult is the best!</p>  <p>https://classroom.thenational.academy/lessons/what-impact-do-gears-levers-and-pulleys-have-on-forces-60w3cd?activity=video&step=2</p> <p>Career Links: Mechanical engineers Archimedes (Greece) Romans</p> 	<p>Are some rivers more important than others?</p> <p>Skills: -Measure and mark out to the nearest mm -Cut slots and internal shapes.</p> <p>The children will use and explore complex popups, building on learning from Key Stage 1. They will apply their knowledge from Geography to design, make and evaluate their own pop up non-fiction book to show the journey of a river. This will be done in small groups or independently.</p>
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<p>Year 5</p>	<p>What did the Anglo Saxons and Vikings leave behind?</p> <p>Cooking Skills: -Control temperature and timings -Kneading method</p> <p>Using inspiration from the Anglo Saxons, the Year 5 children will design and make their own bread for a purpose as well as learning how to store appropriately. They will explore different flavours in order to improve a simpler recipe. E.g. garlic and rosemary, cheese and chive etc. Once completed, the children will evaluate their product in detail</p>	<p>Why would you leave one small island for another?</p>	<p>How can you make theatre?</p>	<p>How easy would it be to become a self-sufficient school?</p>	<p>How did mining shape the North East we know today?</p> <p>Skills: -Using a glue gun with supervision -Joining materials (e.g. hand drill) -Use of mechanical structures such as levers, pulleys and gears</p> <p>Make links with previous learning in Year 2, George Stephenson. This will be linked to the winder in mining, which used a gear mechanism.</p> <p>Careers Links: Mechanical engineers George Stephenson</p> 	<p>Who was more advanced in 900AD Britain or the Maya?</p> <p>Skills: -running stitch -seam allowance -pin and tuck technique -applique</p> <p>The Year 5 children will create a 3D Mayan quilt product. Many of the skills will be applied from textiles in previous years as well as the new skill of using applique (a layer on top of foundation layer of fabric).</p> <p>Stimulus - Book: The Quilt maker's Gift</p> 
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<p>Year 6</p>	<p>What are rainforests and what actions can we take to improve their sustainability?</p>	<p>What does it mean to be fit for life?</p> <p>Cooking – Christmas Fair Combine ingredients appropriately e.g. beating or rubbing.</p> <p>Measure ingredients to the nearest gram and millilitre and calculate ratios of ingredients to scale up or down from a recipe.</p> <p>Understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.</p> <p>Create and refine recipes, including ingredients, methods, cooking times and temperatures.</p>	<p>Construction/Electricity Skills: -Cut wood accurately to 1mm -Cut with precision -Using sanding to refine and finish Sheet materials Link to electricity Science</p> <p>Children will create a light box sign. They will make a frame box using wood they measure and cut accurately and diagonal struts to strengthen which they learnt in Year 4. Once the structure is made, they can decide on how to display their message. See PlanBee for planning support.</p>  	<p>How has crime and punishment changed over time in Britain?</p> <p>Textiles Skills: -Selecting appropriate tools and techniques for joining textiles -Create 3D products using pattern pieces and seam allowance -Pin and tuck -Running stitch, over sewing and back stitch</p> <p>The Year 6 children will use a mixture of hand sewing and machine sewing to upcycle clothing. They will use skills learnt in previous year groups and their knowledge of reusing and recycling to help the planet. To end the unit they will do their own fashion show and take the clothes home to wear.</p>
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