



Deer Park Primary School

DESIGN & TECHNOLOGY CURRICULUM

Our Ultimate End Goal:

What will our designers be able to do when they leave us?

- **By the time our designers leave Deer Park Primary School they will have become resourceful, innovative, enterprising and capable citizens;**
- **They will have been inspired by inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products and in doing so made the world a better place;**
- **Our designers will be able to critique, evaluate and test their ideas and products and the work of others;**
- **They will use their creativity and imagination with confidence, to 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 will be given the opportunities to collaborate with others and to reflect on the products they have created;**
- **Each year, the children will utilise their skills and knowledge within the field of Design Technology to make the world a better place by designing, making and selling products as part of the Deer Park World of Work Curriculum.**

Curriculum Coverage (NC)

What are the most basic requirements from the National Curriculum?

EYFS	Key Stage 1	Key Stage 2
<p>Expressive Art and Design</p> <ul style="list-style-type: none"> • Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form, and function; • Share their creations, explaining the process they have used. <p>Physical Development (Moving and Handling)</p> <ul style="list-style-type: none"> • Children handle equipment and tools effectively, including pencils for writing. <p>Expressive Arts and Design (Being Imaginative)</p> <ul style="list-style-type: none"> • Children use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories. 	<p>Design</p> <ul style="list-style-type: none"> • design purposeful, functional, appealing products for themselves and other users based on design criteria. • generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. <p>Make</p> <ul style="list-style-type: none"> • select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]. • select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. <p>Evaluate</p> <ul style="list-style-type: none"> • explore and evaluate a range of existing products • evaluate their ideas and products against design criteria <p>Technical knowledge</p> <ul style="list-style-type: none"> • build structures, exploring how they can be made stronger, stiffer and more stable explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. • Cooking and Nutrition: • use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from. <p>Cooking and Nutrition</p> <ul style="list-style-type: none"> • use the basic principles of a healthy and varied diet to prepare dishes • understand where food comes from. 	<p>Design</p> <ul style="list-style-type: none"> • use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. • generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. <p>Make.</p> <ul style="list-style-type: none"> • select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. • select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. <p>Evaluate</p> <ul style="list-style-type: none"> • investigate and analyse a range of existing products • evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. • understand how key events and individuals in design and technology have helped shape the world <p>Technical knowledge</p> <ul style="list-style-type: none"> • apply their understanding of how to strengthen, stiffen and reinforce more complex structures • understand and use mechanical systems in their

		<p>products [for example, gears, pulleys, cams, levers and linkages],</p> <ul style="list-style-type: none"> • understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]. • apply their understanding of computing to program, monitor and control their products. <p>Cooking and Nutrition:</p> <ul style="list-style-type: none"> • understand and apply the principles of a healthy and varied diet. • prepare and cook a variety of predominantly savory dishes using a range of cooking techniques. • understand seasonality, and know where and how a variety of ingredients are grown, reared, caught & processed.
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Year Group Overview – Cycle A

Key Stage	Autumn	Spring	Summer
EYFS	Mechanism Christmas Cards (Y1 – including a lever)	Textiles Weaving (Yr1 – bags) (EYFS – collaborative large outdoor structure with weaving)	Cooking and Nutrition Vegetable Wraps (EYFS) Vegetable pizza (Yr1)
Year 1 & 2	Textiles Weaving a Bag	Mechanism Drawbridges	Cooking and Nutrition Pizzeria
Year 3 & 4	Cooking and Nutrition Spiced Christmas Cookies	Mechanism Environmental Posters	Structures/Computers Stone Age Houses
Year 5 & 6	STEM Structures Rollercoaster	Cooking and Nutrition Healthy muffins	Electrical Systems/Computers Father's Day Card

Year Group Overview – Cycle B

Key Stage	Autumn	Spring	Summer
EYFS	Cooking and Nutrition Fruit Salad	EYFS - Textiles – Teddy Structures – Rockets Year 1 - Textiles – Bookmarks Structures - Bridges	Cooking and Nutrition EYFS – Fruit Salads Year 1 - Salads
Year 1 & 2	Cooking and Nutrition Salad	Textiles Bookmarks	Structures Bridges
Year 3 & 4	Mechanism Moving toys	Mechanism - Moving Toys Cooking and Nutrition - Smoothie Bar	Textiles/Computers Money Containers
Year 5 & 6	Cooking and Nutrition Soup Kitchen	Textiles Fashion Show	Electrical Systems/Computers Moving character from the Tempest

Our curriculum

We have designed our curriculum to cover key concepts and common connections. These are outlined in the tables below:

Our Key Concepts and skills – Cycle A

	Cooking and Nutrition	Structure	Mechanical Systems	Electrical Systems	Computers	Textiles
EYFS	Vegetable Wraps <ul style="list-style-type: none"> • To cut and mix • To use a knife safely using the bridging technique. • To choose healthy vegetables to put in a wrap 		Christmas Cards <ul style="list-style-type: none"> • Y1 - To move a card using a basic lever and pulleys. To use paper, card, scissors and glue. 			Weaving <ul style="list-style-type: none"> • To work in a team • To use safely and explore a variety of different materials and textures to weave on a large scale.
Year 1 & 2	Pizzeria <ul style="list-style-type: none"> • To cut, chop, tear and grate safely. • To use the equipment 		Drawbridge <ul style="list-style-type: none"> • To use levers, wheels and pulleys to raise and lower the 			Weaving <ul style="list-style-type: none"> • To cut, tie, weave to strengthen and join material.

	<p>knife, grater and hands.</p>		<p>drawbridge. To use triangularisation as a strengthening technic.</p> <ul style="list-style-type: none"> • To use cardboard, dowel, string, masking tape, sellotape, cotton reels and wooden sticks. 			<ul style="list-style-type: none"> • To use paper, card, scissors, glue, thread, fabric and needles.
Year 3 & 4	<p>Spiced Christmas Cookies</p> <ul style="list-style-type: none"> • To mix, grate, slice, knead and bake safely. • To use the equipment knife, grater, hands, oven, pastry cutters. 	<p>Stone Age Houses</p> <ul style="list-style-type: none"> • Join twigs, mud, and straw to reinforce more complex structures. • Select a wider range of tools and equipment appropriate for building a cob house. 	<p>Environmental posters</p> <ul style="list-style-type: none"> • To use levers and leverages to move mechanisms. To use triangularisation as a strengthening technic. • To use cardboard, glue, sellotape, scissors, paper and split pins. 		<p>Stone Age Houses</p> <ul style="list-style-type: none"> • To use a computer to design the interior of a Stone Age Cob House. • To include the features found in an average Stone House. 	
Year 5 & 6	<p>Healthy Muffins</p> <ul style="list-style-type: none"> • To cut, chop, tear and grate safely. • To use the equipment knife, grater and spoon. 	<p>Rollercoaster</p> <ul style="list-style-type: none"> • To cut, saw, glue safely to join paper, cardboard, wood or plastic tubing. To use triangularisation to strengthen a structure. • To use a variety of appropriate tools such as; scissors, glue gun, glue, saw, mitre & staples. 		<p>Father's Day Card</p> <ul style="list-style-type: none"> • To use a series of circuits including a bulb, switch or sensor. • Crumble kits, bulb, sensor or switch, computer, card, decorative art materials. 	<p>Father's Day Card</p> <ul style="list-style-type: none"> • To use a computer to program monitor and control their card. To use a Crumblekit and computer 	

Our Key Concepts and skills – Cycle B

	Cooking and Nutrition	Structure	Mechanical Systems	Electrical Systems	Computers	Textiles
EYFS	Fruit Salads <ul style="list-style-type: none"> • Personal and food hygiene • To cut, peel and prepare fruit 	Rockets <ul style="list-style-type: none"> • Explore a variety of materials, tools and techniques Experiment with colour, design, texture, form and function 	<ul style="list-style-type: none"> • 			Teddy <ul style="list-style-type: none"> • To cut, stick, join and stuff. • Scissors, glue, felt fabric, stuffing
Year 1 & 2	Salad <ul style="list-style-type: none"> • Personal and food hygiene • To cut, chop, tear, grate, peel, toss and spiralize safely. • To use the equipment knife, grater, peeler, spiralizer and hands. 	Bridges <ul style="list-style-type: none"> • Join paper using glue, sellotape, masking tape staples, paper clips and scissors carefully. • Strengthen, stiffen structures using rolling and concertinaing paper. To use triangularisation as a strengthening • technic. 				Bookmarks <ul style="list-style-type: none"> • To cut, thread, weave, cross stitch, embroidery, knotting • Scissors, needles, thread, Binca fabric,
Year 3 & 4	Smoothie Bar <ul style="list-style-type: none"> • To cut, chop, blend, juice, peel, mix. • To use the equipment safely; blender, juicer, knife, peeler. 		Moving Toys <ul style="list-style-type: none"> • To understand and use mechanical systems using cams, camshafts, levers and linkages. To use triangularisation as a strengthening technic. 		Money Containers <ul style="list-style-type: none"> • To use a computer to design the money container. • To include the features of a money container and materials, used as a digital design plan. 	Money Containers <ul style="list-style-type: none"> • To Cut, thread, weave, cross stitch, glue, embroidery, back stitch, blanket stitch, knots, zip, buttons, staple. • To use scissors, thread, fabric, glue,

			<p>To use wood to make a cube, triangles to reinforce the cams of different shapes, glue gun, glue card, paper and masking tape .structure, dowel, and</p>			<p>buttons or a zip.</p>
<p>Year 5 & 6</p>	<p>Soup Kitchen</p> <ul style="list-style-type: none"> • To cut, chop, peel, grate, mix, stir, season. • To use equipment safely; knife, peeler, grater, mini chopper 		<p>Moving character from the Tempest</p> <ul style="list-style-type: none"> • To use previous knowledge of cams, camshafts, levers, leverages and triangularisation to make a character move in a Diarama. • To use a variety of equipment and materials appropriate to the design 	<p>Moving character from the Tempest</p> <ul style="list-style-type: none"> • To use a series of circuits including a bulb, switch or sensor. • Crumble kits, bulb, sensor or switch, computer, card, decorative art materials. 	<p>Moving character from the Tempest</p> <ul style="list-style-type: none"> • To use a computer to program monitor and control their character. <p>To use a Crumble kit and computer</p>	<p>Fashion Show</p> <ul style="list-style-type: none"> • To use a variety of skills such as; cut, thread, weave, cross stitch, glue, embroidery, back stitch, blanket stitch, knots, zip, buttons, staple and tie to up-cycle materials to make new designs. • To use scissors, string, ribbon, fabric, needle, thread, buttons, zips, sequins, tassels, lace, paper, plastic, tissue, glue, tape paint, ink etc. to create new • clothes.

The areas in grey are not relevant to EYFS and Key Stage 1

At Deer Park Primary School, we will use the six essentials of good practice in D&T:

USER: Children should have a clear idea of who they are designing their project for – considering needs, wants, interests or preferences

PURPOSE: children should know what the products they design and make are for. It should perform a clearly defined task that can be evaluated in use.

FUNCTIONALITY: Children should design and make products that function in some way to be successful.

DESIGN DECISIONS: Children need opportunities to select materials, components and techniques

INNOVATION: Children need scope to be original in their thinking and need open starting points

AUTHENTICITY: Children should design and make believable, real and meaningful products.

Each of the learning experiences will ensure that the children have 3 stages of learning:

Investigative and Evaluative Activities: Children learn from a range of existing products, learning about D&T in the wider world

Focused Tasks: Where they are taught specific technical knowledge, designing skills and making skills

Design, Make and Evaluate Assignment: where children create functional products with users and purposes in mind

PROCEDURAL KNOWLEDGE – Cycle A & B

What skills do we want our designers to have to support the **DESIGNING, MAKING** and **EVALUATING** stages? How will these skills build on what went before and help prepare our children for what is coming next?

Skill	EYFS	Year 1 and Year 2	Year 3 and Year 4	Year 5 and Year 6
Background Research – Session 1 Exploring context and existing products	Begin to: talk about the different products using the correct names talk about how it works make comparisons with what they have seen before? Say what it made out of?	Continue to: understand what a product is and who it is for understand how a product works and how it is used identify where they might find a particular product identify the materials used to make a product express an opinion about a product	Have developed/developing: identify who made the product, when it was made and what its purpose is identify what the product has been made from evaluate the product on design and use Brain Builders: Research facts about famous inventors/ chefs / designers etc. linked to product	Can/have/know: identify who made the product, when it was made and what its purpose is identify what a product has been made from and how environmentally friendly the materials are evaluate a product on design, appearance and use identify the cost to make a product and whether it has any other purposes e.g. Leading innovation of the time, trend setting Brain Builders: Research facts about famous inventors/ chefs / designers etc. linked to product

Design Criteria – Session 2
Session 2 Understanding their intended users and their own product

Begin to:

Say who could use the product
 Identify if there anyone else that could use the product
 Explain their reasons
 describe who their product is for and why.

Continue to:

use own experiences and existing products to develop ideas
 explain what product they will be designing and making
 explain who their product will be used by
 describe what their product will be used for **and how it will work**
explain why their product is suitable for the intended user

Have developed/developing:

describe the purpose of their product **and how it will work**
 identify design features that will appeal to intended users
 explain how parts of their product works
develop their own design criteria and use for planning ideas
 generate realistic ideas that meet needs of user **and take into account availability of resources**
Brain Builders:
 Understand and gather information about what a particular group or people want from a product

Can/have/know:

describe the purpose of their product
 identify design features that will appeal to intended users
 explain how parts of their product will work
 develop their own design criteria and use for planning ideas
 generate innovative ideas that meet needs of user and take into account availability of resources
create a design description for their product
highlight the impact of time, resources and cost within their design ideas
generate innovative ideas that meet needs of user
Brain Builders:
 Understand and gather information about what a particular group or people want from a product, using questionnaires, surveys etc.

Planning – Session 3
 Session 3 Communicating ideas and creating prototypes
 for product

Begin to:	Continue to:	Have developed/developing:	Can/have/know:
<p>use ideas draw a picture of what they want to make.</p> <p>talk about what they will need to make it into something they can pick up.</p> <p>Talk about how will they put it together</p> <p>Say what colours they want to use</p>	<p>discuss what their steps for making could be</p> <p>represent ideas through talking, drawing and computing – (where appropriate)</p> <p>choose materials to use based on suitability of their properties</p> <p>create templates/pattern pieces and explore materials whilst developing ideas</p>	<p>share and discuss ideas with others</p> <p>order the main stages of making</p> <p>choose materials to use based on suitability of their properties</p> <p>represent ideas in diagrams, annotated sketches and computer based programmes (where appropriate)</p> <p>create pattern pieces and prototypes</p>	<p>share and discuss ideas with others</p> <p>record a step by step plan for making</p> <p>produce lists for the tools, equipment and materials they will be using</p> <p>choose materials to use based on suitability of their properties and aesthetic qualities</p> <p>represent ideas in diagrams, annotated sketches and computer based programmes (where appropriate)</p> <p>create pattern pieces and prototypes</p>

<p style="writing-mode: vertical-rl; transform: rotate(180deg);"> Making –Session 4-5 Selecting the tools and applying the practical skills and techniques </p>	<p>Begin to: safely use and explore a variety of materials, tools and techniques</p> <p>experiment with colour, design, texture, form, and function</p>	<p>Continue to: choose suitable tools for making <i>whilst explaining why they should be used</i></p> <p>follow safety and food hygiene procedures</p> <p>measure, mark, cut and shape materials and components</p> <p>join, assemble and combine materials and components</p> <p>use finishing techniques, including skills learnt in Art</p>	<p>Have developed/developing: choose suitable tools for making whilst explaining why they should be used Use design criteria whilst making</p> <p>follow safety and food hygiene procedures</p> <p>measure, mark, cut and shape materials and components with some accuracy</p> <p>join, assemble and combine materials and components with some accuracy</p> <p>use finishing techniques, including skills learnt in Art with some accuracy</p>	<p>Can/have/know: choose suitable tools for making whilst explaining why they should be used Use design criteria whilst making</p> <p>follow safety and food hygiene procedures</p> <p>measure, mark, cut and shape materials and components accurately</p> <p>join, assemble and combine materials and components accurately</p> <p>demonstrate problem solving skills when encountering a mistake or practical problem</p> <p>use finishing techniques <i>that involve a number of steps, including skills learnt in Art accurately</i></p>
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);"> Evaluation – Session 6 Referring to planning and initial ideas in evaluating their product </p>	<p>Begin to: share their creations, explaining the process they have used</p>	<p>Continue to: talk about their design ideas and what they have made</p> <p>make simple judgements of how the product met their design ideas</p> <p><i>suggest how their product could be improved</i></p>	<p>Have developed/developing: use design criteria to evaluate product – identifying both strengths and areas for development</p> <p>consider the views of others, including intended user, whilst evaluating product</p>	<p>Can/have/know: use design criteria to evaluate product – <i>looking at quality of end product and design and whether it is fit for its intended purpose</i></p> <p>consider the views of others, including intended user, whilst evaluating product</p>
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Skills shown in green are the older year groups extra skills for mixed year classes

Cooking and nutrition - Cross curriculum Links with Science

Teaching cooking and nutrition Understanding food and food preparation	<p>Across KS1:</p> <ul style="list-style-type: none"> • Understand that food comes from plants or animals • Understand that food has to be farmed, caught, or grown 	<p>Lower KS2:</p> <ul style="list-style-type: none"> • Understand which foods are reared, caught, or grown and that this happens in the UK and across the globe • Understand that recipes can be changed by adding or taking away ingredients • Understand that the seasons can affect food produce 	<p>Upper KS2:</p> <ul style="list-style-type: none"> • Understand which foods are reared, caught, or grown and that this happens in the UK and across the globe • Understand that the seasons can affect food produce • Understand that sometimes raw ingredients need to be processed before they can be used in cooking (eg. De-feathering a chicken) • Understand that recipes can be adapted to change the appearance, taste and aroma of a dish
Teaching cooking and nutrition Food preparation, cooking and nutrition	<p>Across KS1:</p> <ul style="list-style-type: none"> • Sort foods into the 5 groups using The Eatwell Plate • Identify that people should eat at least 5 portions of fruit and vegetables a day • Prepare simple dishes hygienically and safely without a heat source • Use cooking techniques such as: cutting, peeling and grating 	<p>Lower KS2:</p> <ul style="list-style-type: none"> • Sort foods into the 5 groups using The Eatwell Plate and identify that this makes up a healthy diet • Identify that food and drink are needed to provide energy for a healthy and active lifestyle • Identify that people should eat at least 5 portions of fruit and vegetables a day • Prepare simple dishes hygienically and safely, where needed with a heat source • Use cooking techniques such as: chopping, peeling, grating slicing, mixing, spreading, kneading and baking 	<p>Upper KS2:</p> <ul style="list-style-type: none"> • Sort foods into the 5 groups using The Eatwell Plate and identify that this makes up a healthy diet • Identify that food and drink provide certain nutritional and health benefits which support a healthy lifestyle • Identify that people should eat at least 5 portions of fruit and vegetables a day • Prepare simple dishes hygienically and safely, where needed with a heat source • Use cooking techniques such as: chopping, peeling, grating slicing, mixing, spreading, kneading and baking

LINES OF ENQUIRY

Questions to arise to show propositional knowledge:
 What lines of enquiry do we want our Designers to follow?
 What experiences do we want our Designers to have had?
 What key concepts or knowledge will our designers have?

EYFS	YEAR 1 AND YEAR 2	YEAR 3 AND YEAR 4	YEAR 5 AND YEAR 6
<p>ROCKETS Lines of enquiry</p> <p>What do rockets look like?</p> <p>What can I use to make my rocket? How can I join cardboard together?</p>	<p>WEAVING Lines of enquiry</p> <p>Is all material woven?</p> <p>Does weaving make the material stronger? Can all materials be woven?</p>	<p>SPICED CHRISTMAS COOKIES TOHANG ON A TREE Lines of enquiry</p> <p>Where do the different spices come from?</p> <p>What do the different spices taste like?</p> <p>Why do we do a taste test?</p> <p>How does the heat change the ingredients when cooked?</p>	<p>HEALTHY MUFFINS Lines of enquiry</p> <p>What other recipes do you know that use the same ingredients?</p> <p>Can a muffin be part of a healthy diet?</p> <p>How does using beetroot change the appearance and taste of the muffins?</p> <p>Does using vegetables make the muffin healthy and why?</p>
<p>WEAVING Lines of enquiry</p> <p>Why do we weave?</p> <p>What structures can we make when weaving?</p>	<p>DRAWBRIDGES Lines of enquiry</p> <p>What is a lever?</p> <p>What is a pulley mechanism?</p> <p>Do I know the difference between pullies and levers?</p> <p>Have I used a pulley or a lever in my design?</p> <p>Can I work pullies and levers?</p>	<p>ENVIRONMENTAL POSTERS Lines of enquiry</p> <p>What do I know about levers and linkages?</p> <p>How do I make something move using a lever?</p>	<p>ROLLERCOASTER Lines of enquiry</p> <p>Can we follow a design criteria?</p> <p>Have we used my mathematical knowledge to create this design?</p> <p>How do we test materials before designing your product?</p> <p>How can we strengthen your structure?</p>
<p>VEGETABLE WRAPS Lines of enquiry</p> <p>Where do vegetables come from?</p> <p>Is a wrap healthy? Do vegetables taste different when they are put in a wrap together?</p> <p>What tools will I use to make a wrap?</p>	<p>PIZZERIA Lines of enquiry</p> <p>Where does pizza come from?</p> <p>Why do we cook pizza?</p>	<p>STONE AGE HOUSES Lines of enquiry</p> <p>How can computers be used to produce a design?</p>	<p>FATHER'S DAY CARD Lines of enquiry</p>
<p>CHRISTMAS CARDS Lines of enquiry</p> <p>How do pop up books work?</p> <p>What do I have to do to make levers</p>			

<p>move? (Y1) What is a lever? What is a pulley mechanism? Do I know the difference between pulleys and levers? Have I used a pulley or a lever in my design? Can I work pulleys and levers? Fruit Salad Lines of enquiry What are the names of different fruit? Why do we eat fruit? What ingredients can we change and what can we keep the same? Where do the ingredients come from? TEDDY Lines of enquiry What materials are teddies made out of? Why do we need a design? How do we join it together?</p>	<p>Is pizza good for you? Why do I need a recipe? SALAD Lines of enquiry Why do we clean our hands and ingredients to make a salad? Why is some food safe to eat raw? Why should I eat fruit and vegetables? Where do the ingredients come from? BOOKMARK Lines of enquiry Why do we use stitches? What different stitches can I use? What stitch will be best for my design? BRIDGES Lines of enquiry What different kinds of bridges are there? How do I test the strength of different materials?</p>	<p>How do you use mud and straw to make a Stone Age House? Does the exterior material (mud and straw) need to be waterproof? SMOOTHIE BAR Lines of enquiry Are all smoothies healthy? What ingredients go in a smoothie? Which flavours are most popular? How can you find out? What combination of ingredients makes the healthiest, tastiest smoothie? MOVING TOYS Lines of enquiry What are cams? Are there different designs of cams? Which will be the best cam design to use? What components are needed to make a cam mechanism? MONEY CONTAINERS Lines of enquiry Can I plan my design using 2-Design in Purple mash? What different ways can I join my</p>	<p>Would electrical circuits or Micro:bit be better to use on a greeting card? How can I use coding in a greeting card? How do I use a Micro:bit to make an electronic program? SOUP Lines of enquiry Where do the ingredients come from? Does all soup have to be cooked? Is soup a healthy option? What part of the vegetable is used? What vegetable are grown in the school garden? Are all vegetables grown at the same time? MOVING CHARACTERS FROM THE TEMPEST Lines of enquiry What do I know about levers and linkages to help me make a moving character? How can I use a coding program to make my diorama light up?</p>
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	<p>What do I know about strengthening a structure?</p> <p>Can I push George Stephenson's Rocket over the bridge without collapsing?</p> <p>What is a design brief?</p>	<p>container together?</p> <p>What can I use to stop coins from falling out of my container?</p>	<p>Will I use a cam in my design?</p> <p>FASHION SHOW</p> <p>Lines of enquiry</p> <p>Where could I get materials from?</p> <p>What different ways can we join materials together?</p> <p>How will this impact the environment?</p>
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What experiences do we want our Designers to have?

EYFS	YEAR 1 AND YEAR 2	YEAR 3 AND YEAR 4	YEAR 5 AND YEAR 6
<p>Rocket Structures</p> <p>Creative area in the classroom about space and rockets. Make a rocket from up cycling boxes using recycle materials in the outdoor area. (Link English, Science, computers)</p> <p>Weaving Textiles</p> <p>Different materials and textures in the investigation and dressing up area. Investigate different ways to join materials together to make them stronger.</p> <p>Vegetable Wraps Cooking and Nutrition</p> <p>Make salads wraps and take home to share with the family. Use the play kitchen for role play making a salad wrap. Go to the school garden and look at the plants and vegetables growing there. Which plants can you eat and which ones can't you eat?</p> <p>CHRISTMAS CARDS Mechanism</p> <p>Pop up books for the children to use and</p>	<p>WEAVING Textiles</p> <p>To make a woven basket to hold a product out of a chosen material. To take as a gift for Christmas. (Link Science/Materials)</p> <p>DRAWBRIDGES Structures</p> <p>To experiment with different pulley systems using levers, sliders and axles to make the bridge rise up. (Link History)</p> <p>PIZZERIA Cooking and Nutrition</p> <p>To do a taste test of different toppings. To make a pizza parlour to invite parents in to taste the different pizzas. (Link science and Geography)</p> <p>SALAD Cooking and Nutrition</p> <p>To do a taste test of different vegetables and fruits. To make a salad and invite parents in to taste. (Link R.E. and Harvest Festival)</p>	<p>SPICED CHRISTMAS COOKIES TOHANG ON A TREE Cooking and Nutrition</p> <p>To do a taste test of different spices. To choose spices to make a Christmas cookie to hang on a Christmas tree. To sell at the Christmas fayre. (Link Geography, Science Community and Fund Raising)</p> <p>MOVING POSTERS (ENVIRONMENTAL POSTERS) Mechanism</p> <p>To go on a trip to The Deep. (Link Science)</p> <p>STONE AGE HOUSES Structures/Computers</p> <p>To make a Stone Age Village as a class. Plan the interior of a Stone Age House on 2-design on Purple Mash (Link History)</p> <p>SMOOTHIE BAR Cooking and Nutrition</p> <p>Do a taste test of different vegetables and fruits. Make a smoothie bar and invite</p>	<p>HEALTHY MUFFINS Cooking and Nutrition</p> <p>Compare healthy muffins and sweet muffins (Link Science and school garden)</p> <p>ROLLERCOASTERS Structures</p> <p>Test the product against the design brief. (STEM – Mathematics)</p> <p>MOVING CHARACTERS FROM THE TEMPEST Mechanism/Electrical Systems/Computers</p> <p>Use Micro:bit to make (Link Computers and English)</p> <p>SOUP KITCHEN Cooking and Nutrition</p> <p>Collect vegetables and herbs from the school garden and make soup to invite people from the local community in for Harvest Festival. (Link school garden, community and Harvest Festival)</p> <p>LIGHT UP CARD</p>

<p>investigate. Construction area with mechanical parts that move. To make a pop-up card to send home for Christmas. (Link R.E. Beliefs)</p> <p>Salads Cooking and Nutrition</p> <p>Make fruit salads and take home to share with the family. Use the play kitchen for role play making a fruit salad. Go to the school garden and look at the plants and vegetables growing there. Which plants can you eat and which ones can't you eat?</p> <p>TEDDY Textiles</p> <p>Make a teddy for a teddy bears picnic and invite parents. (Link History)</p> <p>Teddies, blankets and picnic wear in outside area.</p>	<p>BOOKMARK Textiles Make a bookmark to sell at the school fair (Link community, fund raising)</p> <p>BRIDGES Structures</p> <p>Make a bridge to a given criteria to test a model of George Stephenson's Rocket working in Kagan teams.</p> <p>Visit the Railway museum in York. (Link History)</p>	<p>parents in to taste. (Link Science)</p> <p>MOVING TOYS Mechanism</p> <p>Make a moving toy using cams for aKey Stage 1 child. (Link Computers)</p> <p>MONEY CONTAINERS Textiles/Computers</p> <p>Test if the product holds coins.</p>	<p>Electrical Systems/Computers</p> <p>Make a light up card for Father's day using Micro:bit (Link computers/coding)</p> <p>FASHION SHOW (UP-CYCLINGMATERIALS) Textiles</p> <p>Collect unwanted clothes at school. Up-cycle the materials and design and make a variety of costumes for a fashion show. The classes perform in front of the school. (Link environmental)</p>
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**What key vocabulary will our designers need? Vocabulary will be continually revisited throughout each year group.
Vocabulary is important because it embodies and communicates concepts.**

EYFS		YEAR 1 and YEAR 2		YEAR 3 and YEAR 4		YEAR 5 and YEAR 6	
	Key Design Vocabulary		Key Design Vocabulary		Key Design Vocabulary		Key Design Vocabulary
Design	Picture, drawing, user, design		Purpose, develop, model, template, information, materials, Mock up, function, product, media, appeal, prototype, client/audience		user, purpose, design, model, evaluate, prototype, annotated sketch, mock-up, functional, innovative, investigate, label, drawing, function, planning, design criteria, appealing, design brief, design criteria, innovative, sensory		design decisions, functionality, authentic, user, purpose, design specification, design brief, innovative, research, evaluate, design criteria, annotate, evaluate, mock-up, prototype, function, innovative, purpose design brief, design specification, prototype, annotated sketch
Make	Experiment, change, tools, materials, use		Design, equipment, material, fabric, thread, shape, glue, cut, fold, sew, staple, join, function, refine, mechanism, adhesive, template		Select, tools, equipment, skills, technique, perform, explain, components, material, construction, build, create, product, stages, utensils,		Combine, functional properties, aesthetic qualities, electrical components, function, step-by-step plan, resources, measure, assemble, connect electrical components, reliable, functional, decorative techniques
Evaluate	Materials, use, idea, improve.		Evaluate, improve, design, product, criteria, judge		Investigate, levers and linkages, project, test, original design criteria, evaluate, purpose, strengths, improvement		Compare, record evaluations, consider views, improve, modify, features, specification, critical, development, appropriate test, demonstrate, effectiveness
Technical Knowledge	technology, record, video, photograph, computer		roll, pleat, stiffen, strengthen, reinforce, structure, pulleys, hinge, levers, Corrugate, hinge, lever, pivot, linkages.		evaluating, design brief, design criteria, innovative, prototype, user, purpose, function, prototype, design criteria, innovative, appealing, design brief, planning, annotated sketch, sensory evaluations, design, model, evaluate, annotated sketch, functional, innovative, investigate, label, drawing, design criteria, appealing		design decisions, functionality, authentic, user, purpose, design specification, design brief, innovative, research, evaluate, design criteria, annotate, evaluate, mock-up, prototype, function, innovative, design user, purpose design brief, design specification, prototype, annotated sketch

<p>Cooking and Nutrition</p>	<p>food, meal, snack, healthy, diet</p>	<p>chop, cut, peel, cook, healthy, farm, factory, nutrition, balance, carbohydrates, protein, sugar, vitamin, mineral, fat, thin, exercise and fitness, organic, hygienic</p>	<p>name of products, names of equipment, utensils, techniques and ingredients texture, taste, sweet, sour, hot, herb, spicy, appearance, smell, preference, greasy, moist, cook, fresh, savoury, hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet</p>	<p>Ingredients, yeast, dough, bran, flour, wholemeal, unleavened, baking soda, spice, herbs fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape, sprinkle, crumble</p>
<p>Structures</p>	<p>ROCKETS Structures card, masking tape, assembling, cutting, joining, vehicle, wheel, body, cab</p>	<p>BRIDGES Structures - Freestanding structures cut, fold, join, stick structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved metal, wood, plastic circle, triangle, square, rectangle, cuboid, cube, cylinder design, make, evaluate, user, purpose, ideas, design criteria, product, function</p>	<p>STONE AGE HOUSES Structures- Computers Cave painting, mammoth, spears, house, Neolithic, fur pelt, Skara Brae, hand axe, antler, hammerstone, stone, wood, shelter, fire, settlement, prey, B.C., artefact, mud, cob, adobe, straw, construct</p>	<p>ROLLERCOASTERS Structures structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent design brief, design specification, prototype, annotated sketch, purpose, user, innovation, research functional shape, design specification, innovative, research, evaluate, design brief, criteria</p>
<p>Cooking and Nutrition</p>	<p>VEGETABLE WRAPS Cooking and Nutrition vegetables, lettuce, tomatoes, flat bread, cheese, cucumber, layer, chop, knife, hygiene</p> <p>FRUIT SALAD Cooking and Nutrition fruit, apples, oranges, grapes, pieapple, chop, knife, hygiene</p>	<p>PIZZERIA Cooking and Nutrition design criteria, purpose, user, annotated sketch, sensory, evaluations, peeling, chopping, slicing, grating, mixing, spreading, kneading, baking, fresh, pre-cooked, processed, oven,</p> <p>SALAD Cooking and Nutrition Vegetables, fruit, carrot, spinach, lettuce, tomato, cucumber, onion, cheese, olives, grapes, strawberry,</p>	<p>SPICED CHRISTMAS COOKIES TOHANG ON A TREE Cooking and Nutrition Spice, nutmeg, cinnamon, ginger, bicarbonate of soda, golden syrup, combined, dusting, grind, grate</p> <p>SMOOTHIE BAR Cooking and Nutrition Fruit, shake, beverage, blend, juicer, squeeze, berries, vegetables, options, popular</p>	<p>HEALTHY MUFFINS Cooking and Nutrition Comparison test, vegetables, beetroot, carrot, spinach, basil, tomato, cheese, salt, pepper</p> <p>SOUP Cooking and Nutrition design criteria, purpose, user, annotated sketch, sensory, evaluations, peeling, chopping, slicing, grating, mixing, spreading, kneading, baking, fresh, pre-cooked, processed,</p>

		raspberry, blueberry, orange, apple, pear, lemon, mango (depending on the year groups)		seasoning, herbs
Textiles	TEDDY Textiles Join, decorate, finish, template, shiny, scale, cut, fabric, wadding Weaving Textiles Join, decorate, finish, thread, weave, cut, fabric	WEAVING Textiles joining and finishing techniques, tools, fabrics and components, pattern pieces, mark out. BOOKMARK Textiles stitch, thread, needle, eye of a needle, running stitch, cross stitch, embroidery, fabric, finishing,	MONEY CONTAINERS Textiles - Computers names of fabrics, fastening, compartment, zip, button, structure, finishing technique, strength, weakness, stiffening, templates, stitch, running stitch, cross stitch, embroidery, back stitch, blanket stitch, seam, seam allowance, functionality, innovation, authentic, user, purpose, evaluate, mock-up, prototype	FASHION SHOW Textiles Up-cycle, recycle, re-use, environment, fashion, seam, seam allowance, wadding, reinforce, right side, wrong side, hem, template, pattern pieces, name of textiles and fastenings used, pins, needles, thread, pinking shears, fastenings,
Mechanism	CHRISTMAS CARDS Mechanism slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards	DRAWBRIDGES Mechanisms slider, lever, pivot, slot, bridge/guide, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, shaping, finishing, fixed, free, moving, mechanism names of tools, equipment and materials used	MOVING POSTERS Mechanism Mechanism, lever, linkage, pivot, slot, bridge, guide system, input, process, output, linear, rotary, oscillating, reciprocating MOVING TOYS Mechanism Cam, camshaft, mechanism, guide, test, diagram, gravity, rotary motion, pivot, off centre, axle, force, framework	MOVING CHARACTERS FROM THE TEMPEST Mechanisms, Micro:bit, Computers pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, output design decisions, functionality, innovation, authentic, user, purpose, design specification, design brief
Electrical Systems				FATHER'S DAY CARD Electronics, Computers prototype, annotated sketch, purpose, user, innovation, research functional, design specification, innovative, research, evaluate, design brief, circuit, light, LED, switch, instruction MOVING CHARACTERS FROM THE TEMPEST

				<p>Mechanisms, Electrical Systems, Computers pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, output design decisions, functionality, innovation, authentic, user, purpose, design specification, design brief</p>
<p>Computer</p>			<p>MONEY CONTAINERS Textiles - Computers names of fabrics, fastening, compartment, zip, button, structure, finishing technique, strength, weakness, stiffening, templates, stitch, seam, seam allowance, functionality, innovation, authentic, user, purpose, evaluate, mock-up, prototype</p> <p>STONE AGE HOUSES Structures- Computers Cave painting, mammoth, spears, house, Neolithic, fur pelt, Skara Brae, hand axe, antler, hammerstone, stone, wood, shelter, fire, settlement, prey, B.C., artefact.</p>	<p>FATHER'S DAY CARD Electrical Systems, Computers prototype, annotated sketch, purpose, user, innovation, research functional, design specification, innovative, research, evaluate, design brief, circuit, light, LED, switch, instruction</p> <p>MOVING CHARACTERS FROM THE TEMPEST Mechanisms, Electrical Systems, Computers pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, output design decisions, functionality, innovation, authentic, user, purpose, design specification, design brief</p>

Curriculum Links

		Cooking and Nutrition	Structure	Mechanical Systems	Electrical Systems	Computers	Textiles
EYFS Cycle A	<p>Vegetable wraps Links - Same basic ingredients in pizza and salads (Y1&2), cookies (Y3&4) and muffins (Y5&6) How these basic ingredients make many different foods.</p>	<p>Rockets Link with Bridges topic in Y1 & 2 making materials stronger, stiffer and reinforced. Designing a product for a purpose.</p>					<p>Fish Link with Y1&2 Weaving and Bookmark. Sewing, joining making materials stronger, stiffer and reinforced. Designing a product for a purpose.</p>
	<p>Fruit Salads Links - preparation of food the same as salads (Y1&2), Hygiene the same for all food preparation. Healthy eating. Smoothie Bar (Y3 & 4) Science Year 2 - Animals Including Humans</p>		<p>Christmas Cards Previous knowledge Pop up books used in class. Link in Y1&2 the children will design, make and evaluate Drawbridges (Y1 children move a card using a basic lever and pullies). They will make moving toy in Y3&4</p>				<p>Teddy This links in Y1&2 Weaving and Bookmark. Sewing, joining making materials stronger, stiffer and reinforced. Designing a product for a purpose.</p>

Pizzeria

Builds on previous knowledge from EYFS: Making a Vegetarian Wrap which will be Salad and cheese. Skills will be developed from just cutting and grating to peeling and chopping.
 Where do these vegetables and fruits come from?
 Link with cookies(Y3&4) and muffins(Y5&6) How these basic ingredients make many different foods.
 Invite parents to try the Pizzeria.

Drawbridge

Builds on previous knowledge from EYFS Christmas cards using levers and levers.
 In Y3&4 they will be making Environmental posters which include levers and levers evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.

Weaving

Builds on EYFS topic on Fish or Teddy. Using materials investigate different ways of joining materials together. If Y1 next year in Bookmarks they will learn a variety of sewing techniques to develop the skills needed to make a money container in Y3&4

<p>Salad Builds on previous knowledge from EYFS: Making a fruit salad. Skills will be developed from just cutting and grating to peeling, chopping and spiralising. Where does these vegetables and fruits come from? Link with cookies(Y3&4) and muffins(Y5&6) How these basic ingredients make many different foods.</p>	<p>Bridges Builds on Trains in EYFS using construction material to design, make and evaluate working in a team to construct a bridge to a design brief. In Y3&4 they will design the interior of a Stone Age house using a computer program and make the structure.</p>				<p>Bookmarks Builds on EYFS topic on Fish or Teddy. Using materials investigate different ways of joining materials together. If Y1 next year in weaving they will learn a variety of sewing techniques to develop the skills needed to make a money container in Y3&4</p>
<p>Spiced Christmas Cookies Builds on previous Pizza base using the same main ingredients for a different purpose. Where do the spices come from? Link with muffins(Y5&6) How these basic ingredients make many different foods? To sell at the Christmas fayre</p>	<p>Stone Age Houses Builds on Bridges in Y1&2 using construction material for the eternal features of a Stone Age House and a computer program for the interior design. In Y5&6 they will make Rollercoaster using research to develop design criteria to inform the design of innovative, functional, appealing Rollercoasters that is fit for purpose.</p>	<p>Environmental posters Builds on Y1&2 to design a drawbridge using wheels and pulleys. Next year they will make a moving toy using cam and camshafts as well as levers (If in Y3). If in Y4 they will build on these skills in Y5&6 to design a character from the tempest using mechanical, computer programming and electronical skills.</p>		<p>Stone Age Houses Use computer programming to design the interior of a Stone Age House. Next Year (If in Y3) will use a computer program to design a money container. In Y5&6 to program controls for an electronic father's day card and a moving character from The Tempest</p>	

Smoothie Bar

Builds on Fruit salad (EYFS) Salad (Yr1&2)the preparation of fresh fruit, vegetables and hygiene.

Link with Healthy Muffins and soup (Y5&6) food preparation and where our food comes from.

Invite parents to the smoothie bar for testing. Which is thehealthiest, tastiest smoothie?

Moving Toys

Builds on previous knowledge from Y1&2 making a Drawbridge In Y3&4 they will be making Environmental posters which include levers and leverages evaluate their ideas and products against their own design criteria and consider the views of others to improve their work (if in Y4). In Y5&6 they will build on these skills to design a character from the tempest using mechanical, computer programming and electronical skills.

Money Containers

Use computer programming to design a money container. Next Year (If in Y3) will use a computer program to design the interior of a Stone Age House. In Y5&6 to program controls for an electronic father's day card and a moving character from The Tempest

Money Containers

Builds on Y1&2 Weaving and Bookmarks using materials investigate different ways of joining materials together. In Y5&6 up-cycle materials to design, make and evaluate garments for a fashion show.

Year 5 & 6 Cycle A

Year 5 & 6 Cycle B

<p>Healthy Muffins Builds on Smoothie Bar and Spiced Christmas Cookies (Y3&4). Same main ingredients used for a different purpose. (Y1&2) salad – food preparation and hygiene. Where does our food come from? Shrove Tuesday for using ingredients up, why? Link with Soup Kitchen (If in Year 5). Invite parents for Muffin tasting.</p>	<p>Rollercoasters Builds on Stone Age House (Y3&4) using construction material for the eternal features and a computer program for the interior design. In Y5&6 they will make Rollercoasters using research to develop design criteria to inform the design of innovative, functional, appealing Rollercoaster that is fit for purpose.</p>		<p>Father's Day Card Builds on circuits in science from Y3 &4. In Y5&6 using circuits to make a moving character from the Tempest (if Y5).</p>	<p>Father's Day Card Builds on previous learning Stone Age House (Y3&4) Using a computer to design. (If in Y5) Y5&6 to use a computer to program electrical circuit Moving Character from the Tempest.</p>	
<p>Soup Kitchen Builds on Smoothie Bar and Spiced Christmas Cookies (Y3&4). Same main ingredients used for a different purpose. (Y1&2) salad – food preparation and hygiene. Where does our food come from? Link with Healthy Muffins (If in Year 5) Invite people from the local community for Harvest Festival.</p>		<p>Moving character from the Tempest In Y3&4 the children designed, made and evaluated Environmental Posters and Moving Toys. They will build on these skills and knowledge to design a character from the tempest using mechanical, computer programming and electronical skills.</p>	<p>Moving character from the Tempest Builds on circuits in science from Y3 &4. In Y5&6 using circuits to make a Father's Day card(if Y5).</p>	<p>Moving character from the Tempest Builds on previous learning Stone Age House (Y3&4) Using a computer to design. (If in Y5) Y5&6 to use a computer to program electrical light circuit for a Father's day cards.</p>	<p>Fashion Show Builds on Y3&4 Money Containers using different techniques to join materials and fasten together.</p>

END POINTS

What key learning to we want our children to know and remember by the end of each unit?

What will we assess our children against?

EYFS	YEAR 1 AND YEAR 2	YEAR 3 AND YEAR 4	YEAR 5 AND YEAR 6
<p>ROCKETS End Point What can I use to make a rocket? How can I join cardboard together? Do I like my design and why?</p> <p>TEDDY End Point What materials are teddies made out of? Why do we need a design? How do we join it together?</p> <p>FRUIT SALADS End Point Where does fruit come from? Is fruit healthy? Can you eat your fruit salad? Why?</p> <p>CHRISTMAS CARDS End Point How do pop up books work? What do I have to do to make levers move?</p> <p>VEGETABLE WRAPS End Point</p>	<p>WEAVING End Point Is all material woven? Does weaving make the material stronger? Is your design strong enough to holdan object?</p> <p>DRAWBRIDGES End Point What is a lever? What is a pully mechanism? Do I know the difference between pullies and levers? Have I used a pully or a lever in my design?</p> <p>PIZZERIA End Point Where does pizza come from? Why do we cook pizza and is it good for you? Did you invite parents in to test thebest pizza design?</p> <p>SALAD End Point Why do we clean our hands and</p>	<p>SPICED CHRISTMAS COOKIES TOHANG ON A TREE End Point Where do the different spices come from? What do the different spices taste like? Did you decorate your cookies and sell them at the Christmas Fayre?</p> <p>ENVIRONMENTAL POSTERS End Point How did I use levelers and linkages in my poster? How do I make something move using a lever? How did I help people improve their work?</p> <p>STONE AGE HOUSES End Point How can computers be used to produce an interior design? How do you use mud and straw to make a Stone Age House? Does the exterior material need to be waterproof?</p> <p>SMOOTHIE BAR End Point</p>	<p>HEALTHY MUFFINS End Point What other recipes do you know that use the same ingredients? Can a muffin be part of a healthy diet? Does using vegetables make the muffin healthy and why?</p> <p>ROLLERCOASTERS End Point Can we follow a design criteria? Have we used my mathematical knowledge to create this design? How do we test materials before designing your product? How can we strengthen your structure?</p> <p>FATHER'S DAY CARD End Point Did I use electrical circuits or Micro:bit to make a greeting card? How do I use coding to make a greeting card light up? What would I do differently next time?</p> <p>SOUP End Point</p>

<p>What ingredients can we change and what can we keep the same?</p> <p>Where do the ingredients come from?</p> <p>WEAVING End Point</p> <p>Why do we weave?</p> <p>What structures can we make when weaving?</p>	<p>ingredients to make a salad?</p> <p>Why should I eat fruit and vegetables?Where do the ingredients come from?</p> <p>BOOKMARK End Point</p> <p>Why do we use stitches?</p> <p>What different stitches can I use?</p> <p>BRIDGES End Point</p> <p>What different kinds of bridges are there?</p> <p>How do I test the strength of different materials?</p> <p>Can I push George Stephenson's Rocket over the bridge without collapsing?</p>	<p>Are all smoothies healthy and what ingredients go in a smoothie?</p> <p>Which flavours are most popular? Howcan you find out?</p> <p>What combination of ingredients makes the heathiest, tastiest smoothie?</p> <p>MOVING TOYS End Points</p> <p>Are there different designs of cams?</p> <p>Which will be the best cam design to use?</p> <p>What components are needed to make a cam mechanism?</p> <p>MONEY CONTAINERS End Point</p> <p>Can I plan my design using 2-Design in Purple mash?</p> <p>What different ways can I join my container together?</p> <p>What can I use to stop coins from falling out of my container?</p> <p>Can my money container hold money?</p>	<p>Where does the ingredients come from including herbs?</p> <p>Does all soup have to be cooked and is it a healthy option?</p> <p>Did you provide soup for people in the local community for harvest time?</p> <p>MOVING CHARACTERS FROM THE TEMPEST End Point</p> <p>What do I know about levers and linkages to help me make a moving character?</p> <p>How can I use a coding program to make my diorama light up?</p> <p>Will I use a cam in my design?</p> <p>FASHION SHOW End Point</p> <p>Where could I get materials from and what different ways can we join materials together?</p> <p>How will this impact the environment?</p> <p>Can you put a fashion show together to show your design?</p>
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