



	Autumn	Spring	Summer	Assessment
	Projects and activities will b	e driven by the needs, interests and experience	s of the pupils involved.	By the end of nursery:
Year N	Provide a range of materials for pupils to explore and play with understanding the world around them and using them to represent objects e.g. toilet role as a telescope. Ensure that you observe and sometimes take part in children's make-believe play in order to gain an understanding of their interests, reflecting on the children's own explorations and creations. The focus should be on 1 type of construction material at a time. For example: Duplo, junk modelling, natural resources, stickle bricks Encourage and support the inventive ways in which children use space, combine and transform both 3D and 2D materials.	Provide a range of materials for pupils to explore and play developing their ability to construct materials e.g. balancing, stacking. The focus should be on 1 type of construction material at a time. For example: Duplo, junk modelling, natural resources, stickle bricks, When children have a strong intention in mind, support them in thinking about what they want to create, the processes that may be involved and the materials and resources they might need.	Support pupils in using resources to begin to create simple props to support their play. Pupils will be supported in using tools for a specific purpose. Recognise that children can become fascinated by a pattern of actions or interactions with tools and materials, gaining confidence over time. Introduce new skills and techniques based on your observations and knowledge of children's interests and skills.	Use objects in make believe play. Build, stack vertically and horizontally, join pieces and make enclosures creating spaces. Use tools for a specific purpose.
Year R	Projects and activities will b Use their increasing knowledge of tools and materials to explore their interests and enquiries and develop their thinking. Choose particular materials for their own imaginative purposes. Draw attention to children's choice and use of materials, tools and techniques and experimentation with design, form and functions. Use individual, small group and large group discussion to regularly engage children in explaining they work in progress.	e driven by the needs, interests and experiences Describe a range of different food textures and tastes when cooking and notices changes when they are combined or exposed to hot and cold temperatures. Be aware that children may have sensory issues around food, texture, taste, smell or colour. Talk with parents and monitor supporting children in building self- confidence and broadening their food repertoire.	s of the pupils involved. Eats a healthy range of food stuffs and understands a need for variety in food. Develop opportunities for pupils to grow, prepare and eat a range of healthy food. Give opportunities for pupils to choose from a variety of materials, tools and techniques allowing opportunity for experimentation. Pupils should explain the processes they have used and incorporate the props into their play.	By the end of EYFS: Use different tools safely e.g. scissors, paint brushes, knife and fork. Use different materials and techniques with a specific outcome in mind. Make something for a specific purpose explaining how they have done this.
				Use their creations in their roleplay.





<ul> <li>create a 3D map of Lenton to share with parents explaining how these will work.</li> <li>Look at examples of Poppy's and go for a walk around Lenton to help them generate ideas.</li> <li>Discuss ideas as a group to generate ideas.</li> <li>Discuss ideas as a group to generate ideas.</li> <li>Model how to join, make 3D by creating a prototype. Include safety procedures.</li> <li>Provide a range of materials and tools discussing with pupils which they will select e.g. cardboard, paper, split pins, tissue paper.</li> <li>Provide a range of materials and tools discussing with pupils which they will select e.g. socks, eyes, beads, pipe cleaners, felt.</li> <li>Provide box modelling, Lego, wooden block,</li> </ul>		Autumn	Spring	Summer	Assessment
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Lenton. Use sliders to make people move around the town.       design criteria.       Peel a variety of different fruits.         Discuss their design – successes and areas for improvement with adults.       Peel a variety of different fruits.	Year 1	<ul> <li>Design a poppy for Remembrance Day and create a 3D map of Lenton to share with parents explaining how these will work.</li> <li>Look at examples of Poppy's and go for a walk around Lenton to help them generate ideas.</li> <li>Discuss ideas as a group to generate ideas – group drawings explaining their ideas.</li> <li>Model how to join, make 3D by creating a prototype. Include safety procedures.</li> <li>Provide a range of materials and tools discussing with pupils which they will select e.g. cardboard, paper, split pins, tissue paper.</li> <li>Pupils use templates to mark out, shape and cut the petals and leaves painting the final product.</li> <li>Provide box modelling, Lego, wooden block, stickle bricks etc to allow pupils to build Lenton. Use sliders to make people move around the town.</li> <li>Discuss their design – successes and areas for</li> </ul>	<ul> <li>Design a sock puppet as a prop in their story recreation. Pupils will generate simple success criteria with the teacher.</li> <li>Look at examples of puppets and discuss what they are, who they are for and how they work. Organise their likes and dislikes in a Venn diagram.</li> <li>Plan by talking about what the next steps are. Model ways to assemble. Join and combine the materials and components e.g. gluing eyes, stapling ears, threading pipe cleaners or threading beads.</li> <li>Provide a range of materials and tools discussing with pupils which they will select e.g., socks, eyes, beads, pipe cleaners, felt.</li> <li>Pupils use techniques to make their sock puppet discussing their design. They will evaluate their own design against the original</li> </ul>	Visit the school kitchen and garden, explaining what they are wanting to make and why creating simple success criteria. With the school cook, discuss where food comes from and that it can be healthy and unhealthy. Discuss the fruit salad that we get served in school and compare it to other options available in shops. They will think about what the products are and who they are for. Pupils choose ingredients based on a variety of colour and their own preferences. School cook will model how to peel, grate and chop safely and hygienically. Once made, pupils will evaluate their final	Say what they are making and why. Select which materials they want to use. Be able to use scissors to cut and shape materials. Use glue to precisely attach two objects. Punch a hole in two pieces of carboard and use a split pin to create a moving join. Discuss their ideas with their teacher also evaluating their final product. Explain if food is healthy or unhealthy.





	Autumn	Spring	Summer	Assessment
	Water collection system using levers wheels and axles	Quiver for Robin Hood's arrows	Create a healthy snack that can be made when travelling	By the end of year 2:
	Design a water collection system which would	Design a quiver which would hold Robin	Pupils will create a healthy snack which can	Create a list of simple design
	allow quicker and easier collection of water from River Trent during the Great Fire of	Hood's arrows whilst also looking attractive.	be made while travelling around the world.	criteria.
	London.	Look at examples of different quivers, bags	Teach them that food has to be farmed,	Use simple mechanisms like levers
		etc to help them generate ideas including	caught or grown elsewhere. Food is sorted	and sliders to make objects move.
	Look at examples of different water collection	researching using IT. Look at examples of	into 5 groups and should be part of a	
	systems to help them generate ideas including researching using IT. Use examples of buckets,	fabric, stitching, how to make it look attractive.	balanced diet.	Make a free-standing object strong and stable.
	pulleys, levers, hoses.		Visit a local supermarket to see the variety	
		Generate simple design criteria considering	of food, where they come from and if they	Say whether their product has been
	Generate simple design criteria considering how they will make the product suitable for the	how they will make the product suitable for the intended user.	are caught / grown.	made successfully or not.
r 2	intended user.		Look at examples of snacks that travellers	Complete a simple basting stitch.
Year 2		Explore different ways of joining the material	make and the importance of them tasting	
~	Explore different ways of making objects move	so that it is durable. Consider gluing, stapling,	nice.	Know the 5 groups in the Eatwell
	considering levers, wheels, axles modelling how	threading and the strengths and weaknesses		plate.
	they work so pupils can decide which to use in	for these.	Plan a snack based on simple criteria using	
	their model.		drawings and conversation to share their	Understand how to hygienically
		Model how to complete a simple basting	plans.	prepare a meal.
	Model how free-standing structures can be	stitch – a bigger version of a running stitch.		
	made stronger and stiffer.		Model how to safely use chopping boards,	
		Make their product by measuring, marking	knives, peelers, graters and explaining the	
	Make their product by measuring, marking and	and cutting out the pieces and assembling the	reason for using these.	
	cutting out the pieces and assembling the	components using a basting stitch.		
	components and pieces.	Evaluate their product by making simple	Make their product and evaluate it against the success criteria. Consider the snack's	
	Evaluate their product by making simple against	Evaluate their product by making simple against the success criteria. Ensure pupils		
	the success criteria. Ensure pupils have chance	have chance to see if it can successfully hold	appearance, taste, smell and if it is nutritious.	
	to see if it can successfully move water.	'arrows'.		
	to see in it can successfully move water.	anows.		





	Autumn	Spring	Summer	Assessment
	Pop up mummy from tomb - Pneumatic mechanism	Viking longboat cushion	Make Gazpacho	By the end of year 3:
	Create a pop-up mummy to scare potential grave robbers away.	Use a single piece of fabric to create a Viking longboat cushion which would be used to provide comfort on long journeys.	Plan and design a balanced meal based on their knowledge from the Eatwell plate.	Research information to create design criteria.
	Research the why there is a need for security in pyramids and explore other products which use pneumatic mechanisms. As a class, generate	Research the needs and wants of Vikings – why they would need a cushion allowing	Learn that food is grown, reared and caught in the UK and wider world and that this determines the foods available and traditional foods actor	Make a labelled diagram.
	realistic ideas through discussion. Develop a specific set of design criteria,	pupils to describe the purpose of their product.	traditional foods eaten. Research recipes for gazpacho and consider	Know how mechanical systems create movement.
	including a strong stiff shell, as a class and use it to create a labelled diagram.	Look at a variety of cushions and investigate and analyse their design, construction and purpose.	if our food will be fresh, pre-cooked or processed and which ingredients will be included.	Understand that people use engineering, design etc as a career.
	Create a pictorial set of instructions for the			
Year 3	product. Research what a pneumatic mechanism is and	Research Paboy Bojang a cushion designer from the Gambia	Taste different types of gazpacho evaluating the taste, aroma, texture and appearance.	Make accurate cuts, holes and joins and a strong stiff shell
٨	consider how they are used in current engineering – 2000 BCE bellows – 1799 George	Identify a set of design criteria, selecting the most appropriate material for the task –	Research Daniela Soto-Innes a famous Mexican chef.	Know how to improve their design.
	Medhurst. Bicycle pumps, brakes.	paper, plastic or fabric?	Model how to safely and hygienically peel,	Understand that recipes are a form of plan.
	Model how to make and operate a pneumatic mechanism.	Model a running stitch, refining previous use of a basting stitch.	chop, slice, grate, mix and blend. Make an Eatwell label for the final recipe	Understand that food can be fresh, processed or pre-cooked.
	Pupils make their product using their design, ensuring that they accurately make cuts, holes	Teach how to use mathematics to ensure the cushion is uniform.	with the right colour coding.	Understand the importance of food
	etc	Make product in accordance with the design	Taste and evaluate their final product.	labellings.
	Finish product utilising techniques from Art and design.	criteria.		Know how to safely use a variety of kitchen equipment.
	Evaluate their final product considering strengths and areas for development.	Think about improvements that could be made next time.		





	Autumn	Spring	Summer
		Rolling Curriculum Year 1	
	Create a moving model of a Victorian Fairground ride.	Cook food using ingredients that would have been used in WWII following a simple recipe.	Create a Protest banner using recycled fabric.
Rolling Curriculum Year 2			
Year 4	Creating a moving model of vehicle that could be used to transport books in the Houses of Learning.	Cook food following a simple Greek recipe	Create an item of clothing or bag that can be used to advertise Fair Trade.
Rolling Curriculum Year 3			
	Create a moving model of a machine that could be used by the Romans to attack a fort.	Cook food that could be eaten by King Arthur's knights on a crusade following a simple recipe.	Create a flag from a country of your choice





Autumn Spring	Summer	Assessment - at the end of Year 4 children should be able to:
Research information about the product being designed and use this to develop a design criteria working in small groups.Research the needs ar and availability of ingr 	<ul> <li>ients. Then, as a e realistic ideas</li> <li>e of different foods</li> <li>share and clarify ideas through discussion and make design decisions that take account of the availability of the resources.</li> <li>shappearance,</li> <li>che ingredients in aluate whether they</li> <li>w their product is or their body.</li> <li>ent suitable for the pping, and slicing, g and baking.</li> <li>fety and hygiene riate the use of a ents under the index of a sector of the availability of the nearest cm.</li> <li>Follow procedures for safety.</li> <li>Follow procedures for safety.</li> <li>Evaluate their product using the design criteria and Identifying what worked well and what they ecipe, for example,</li> </ul>	Research information and use this to develop a design criteria working in a small group. Start to use annotated sketches and cross-sectional drawings to develop and communicate ideas. Use appropriate materials, tools and equipment for a task. Make a product that uses a variety of materials or ingredients.





	Autumn	Spring	Summer	
		Rolling Curriculum Year 1		
	Create a moving model of a Victorian Fairground ride that includes an electric circuit.	Cook a meal using ingredients that would have been used in WWII following a recipe.	Create a Protest banner using recycled fabric using back stich to attach letters and including join two pieces of fabric recognising the need for seam allowance.	
	Rolling Curriculum Year 2			
Year 5	Creating a moving model of vehicle that could be used to transport books in the Houses of Learning that includes an electric circuit.	Cook a meal by following Greek recipes	Create an item of clothing or bag that can be used to advertise Fair Trade allow for seam allowance	
	Rolling Curriculum Year 3			
	Create a moving model of a machine that could be used by the Romans to attack a fort that includes an electric circuit.	Cook a meal that could be eaten by King Arthur's knights on a crusade following a recipe.	Create a flag from a country of your choice using back-stitch and recognising the need for seam allowance.	





	Autumn	Spring	Summer	Assessment - at the end of Year 5
	Autum	Shime	Summer	children should be able to:
	Research information about the product being	Investigate and analyse a variety of food	Research information about the product	Research information and analyse
	designed and use this to develop a design	products looking at taste, appearance,	being designed and use this to develop a	existing products then use this to
	criteria working with a partner.	texture and aroma.	design criteria working with a partner.	develop a design criteria working
			design cifteria working with a partier.	with a partner.
	Share and clarify ideas through discussion and	Investigate and analyse the ingredients in	Generate innovative ideas drawing on	with a partner.
	make design decisions that take account of the	existing products and evaluate how the dish	research and taking account of constraints	Use annotated sketches and cross-
	-		such as time and resources.	
	availability of the resources	can be incorporated within a balanced diet.	such as time and resources.	sectional drawings to develop and
	Concrete in powetive ideas drawing on research		Line expectated electric and evaluation	communicate ideas start to use
	Generate innovative ideas drawing on research	As a class generate innovative ideas for meals	Use annotated sketches and exploding	exploding diagrams.
	and taking account of constraints such as time	based on appearance, taste, texture and	diagrams to develop and communicate their	Coloret and was the month
	and resources.	aroma.	ideas.	Select and use the most
				appropriate materials, tools and
	Use annotated sketches, cross- sectional	Follow a recipe that uses a variety of	Create consistently sized pattern templates,	equipment for a task.
	drawings and start to use exploding diagrams to	ingredients. Including accurately weighing	measuring and marking to the nearest mm.	
	develop and communicate their ideas and	out to the nearest gram.		Design and make a product that
ы	explain how particular parts of their products		Select the most appropriate material, tools	combines several different
Year 5	work.	Follow procedures for safety and hygiene	and equipment for the task from a wide	materials or ingredients.
Ye		including, the importance of correct storage	range of materials.	
	Select and use the most appropriate material,	and handling of ingredients and where		Begin to develop a range of
	tools and equipment for the task combining	appropriate the use of a heat source	Learn and use back-stitch.	practical skills to create a product
	several different materials as needed.			that includes a combination of
		Beginning to demonstrate a range of baking	Follow procedures for safety.	electronics and mechanics.
	Follow procedures for safety.	and cooking techniques.		
			Evaluate the quality of the design,	Understand and follow procedures
	Make a product which uses a combination of	Identify the strengths and areas of	manufacture and fitness for purpose of their	for safety and hygiene.
	electronics and mechanics.	development in their recipe, for example,	products and design, identifying the	
		identifying the nutritional value of their dish.	strengths and areas for development on	Start to use back stitch.
	Begin to develop a range of practical skills to	Evaluate the taste, aroma, appearance and	their product.	
	create products (such as cutting, drilling,	texture of their dish against the recipe.		Begin to demonstrate a range of
	screwing, nailing, gluing, filing and sanding.)		Research the needs and wants of the user	cooking techniques following a
			and how recipes can be adapted to change	recipe that uses a variety of
	Evaluate the quality of the design, manufacture		the appearance, taste, texture and aroma of	ingredients.
	and fitness for purpose of their products and		a dish.	
	design, identifying the strengths and areas for			Evaluate the quality of design and
	development on their product.			fitness for purpose of the product
				produced





	Autumn	Spring	Summer
		Rolling Curriculum Year 1	
	Create a moving model of a Victorian Fairground ride that includes an electric circuit and motorised component.	Create and cook a meal that could have been cooked using ingredients that would have been used in WWII	Create a Protest banner using recycled fabric using a variety of different stiches and including joining two pieces of fabric recognising the need for seam allowance
	Rolling Curriculum Year 2		
Year 6	Creating a moving model of vehicle that could be used to transport books in the Houses of Learning that includes an electric circuit and motorised component.	Create and cook a meal that would be eaten in Greece.	Create an item of clothing that can be used to advertise Fair Trade using a variety of different stiches and including joining two pieces of fabric recognising the need for seam allowance.
	Rolling Curriculum Year 3		
	Create a moving model of a machine that could be used by the Romans to attack a fort that includes an electric circuit and a motorised component.	Create and cook a meal that could be eaten by King Arthur's knights on a crusade.	Create a flag from a country of your choice using and a variety of stitches and recognising the need for seam allowance.





	Autumn	Spring	Summer	Assessment - at the end of Year 6
				children should be able to:
	Research information about the product being	Research the needs and wants of the user.	Research information about the product	Investigate and analyse existing
	designed and use this to independently develop		being designed and use this to	products and use this to
	a design criteria.	Investigate and analyse the ingredients in	independently develop a design criteria.	indedpendnelty develop a design
		existing products and evaluate the different		criteria.
	Generate innovative ideas drawing on research.	substances in them which are necessary for	Generate innovative ideas drawing on	
	Taking account of constraints such as time,	health – water, nutrients and fibre	research. Taking account of constraints such	Use annotated sketches and cross-
	resources and cost.		as time, resources and cost.	sectional drawings and exploding
		Investigate and analyse the cost and		diagrams to develop and
	Use annotated sketches, cross- sectional	sustainability of the recipe.	Use annotated sketches, cross- sectional	communicate ideas.
	drawings and exploding diagrams to develop		drawings and exploding diagrams to	
	and communicate their ideas and explain, in	In small groups, generate innovative ideas for	develop and communicate their ideas.	Select and use the most
	detail, how particular parts of their products	meals based on appearance, taste, texture		appropriate materials, tools and
	work. Start to use computer aided designs (CAD)	and aroma.	Create consistently sized pattern templates,	equipment for a task
	to develop and communicate their ideas.		measuring and marking to the nearest mm.	demonstrating resourcefulness
		Create a menu taking account of constraints		when tackling practical problems.
	Select and use the most appropriate material,	such as time, resources and money.	Select and use the most appropriate	
Year 6	tools and equipment for the task combining		material, tools and equipment for the task	Use a range of practical skills to
Ye	several different materials as needed,	Follow procedures for safety and hygiene	combining several different materials as	design and create a product that
	demonstrating resourcefulness when tackling	including, the importance of correct storage	needed, demonstrating resourcefulness	includes a combination of
	practical problems.	and handling of ingredients using knowledge	when tackling practical problems.	electronics and mechanics.
		of microorganisms and where appropriate the		
	Follow procedures for safety.	use of a heat source.	Use a variety of stitches when creating the	Use a variety of different stiches
			product including joining two or more	when joining fabric.
	Make a product which uses innovative	Follow a simple recipe including accurately	pieces of fabric with seam allowance.	
	combination of electronics (or computing) and	weighing out to the nearest gram.		Demonstrate a range of cooking
	mechanics in product design.		Follow procedures for safety.	techniques following a recipe that
		Demonstrate a range of baking and cooking		uses a variety of ingredients.
	Cut materials with precision and refine the finish	techniques.	Critically evaluate the quality of the design	
	with appropriate tools such as sanding wood		against their original specification, including;	Explain why we follow procedures
	after cutting.	Identify the strengths and areas of	manufacture and fitness for purpose of their	for safety and hygiene.
		development in their menu, for example,	products and design, identifying the	
	Critically evaluate the quality of the design	identifying the nutritional value of their dish.	strengths and areas for development on	Critically evaluate the quality of
	against their original specification, including;	Evaluate the taste, aroma, appearance and	their product.	design and fitness for purpose of
	manufacture and fitness for purpose of their	texture of their dish against the recipe.		the product produced explain how
	products and design, identifying the strengths			the produce could be improved.
	and areas for development on their product.			



