

Projects on a Page (POAP)

Inglewood Nursery and Infant School - Progression in Design and Technology Nutrition – Textiles – Mechanisms - Structures

Early Learning Goals - Children at the expected level of development will:

Expressive Arts and Design

Creating with materials

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
- Share their creations, explaining the processes they have used.
- Make use of props and materials when role playing characters in narratives and stories.

Communication and Language

Listening, Attention and Understanding

Hold conversation when engaged in back-and-forth exchanges with their teacher and peers.

Speaking

Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary; -

Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate; -

Express their ideas and feelings about their experiences using full sentences, including use of past, present and future tenses and making use of conjunctions, with modelling and support from their teacher.

Physical Development Pupils can:

Fine Motor Skills

Use a range of small tools

Managing Self

Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

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KS1 – National Curriculum - Design and Technology

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment].

When designing and making, pupils should be taught to:

Design

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

Make

☐ 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

Evaluate

☐ explore and evaluate a range of existing products ☐ evaluate their ideas and products against design criteria

Technical knowledge

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.

Nutrition

Nursery – Little Fawns	Nursery – Little Owls	Reception	Year 1	Year 2
<p>I can use my senses to explore different fruits and vegetables.</p>	<p>I can design, make and evaluate a fruit salad for a teddy's bears picnic.</p>	<p>I can design, make and evaluate fruit and vegetable kebab for a healthy snack Supporting materials - <u>Fantastic fruits</u></p>	<p>I can design, make and evaluate a fruit and vegetable smoothie for a healthy snack GROUP learning POAP - <u>Preparing fruit and veg</u> Supporting materials- Food a fact of life</p>	<p>I can design, make and evaluate different soup recipes. GROUP learning POAP - <u>Preparing fruit and veg</u> Supporting materials- Food a fact of life</p>
<p>I know:</p> <ul style="list-style-type: none"> • Fruits and vegetables are food. 	<p>I know:</p> <ul style="list-style-type: none"> • The names of common fruits and vegetables, • How to wash and dry my hands effectively 	<p>I know:</p> <ul style="list-style-type: none"> • Where some different fruits and vegetables are grown. • That fruits and vegetable are healthy for me. 	<p>I know:</p> <ul style="list-style-type: none"> • Where different fruits and vegetables come from in the World and reasons for this. • Parts of a plant I can eat. 	<p>I know:</p> <ul style="list-style-type: none"> • How to use the basic principles of a healthy and varied diet to prepare dishes. • Where food comes from (farming and processing).

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	<p>and understands why this is important.</p> <ul style="list-style-type: none"> • 			<ul style="list-style-type: none"> • Food variations across the world.
<p>I will:</p> <ul style="list-style-type: none"> • Use my senses to explore different fruits and vegetables. • Develop my own likes and dislikes in food and drink and be willing to try new food textures and tastes. 	<p>I will:</p> <ul style="list-style-type: none"> • <u>Peel</u> fruit using <u>fingers</u>. • To <u>mix/stir</u> ingredients together. • Be willing to try a range of different textures and tastes and expresses a preference. 	<p>I will:</p> <ul style="list-style-type: none"> • Cut soft fruit and vegetables with a knife using a <u>fork grip</u>. • <u>Snip</u> fruit using scissors. • <u>Measure</u> fruit using a spoon and by counting. • <u>Thread</u> soft fruits/vegetables onto kebab sticks. • Follow instructions on food hygiene. • Follow simple recipes given one instruction at a time by an adult. 	<p>I will:</p> <ul style="list-style-type: none"> • Select from and use a range of tools and equipment to perform tasks. • Cut fruit and vegetables with a knife using a <u>bridge grip</u>. • <u>Peel</u> using a <u>peeler</u> • Use a <u>grater</u> safely • Measure and weigh using <u>measuring cups</u> • Practise basic food hygiene supported by an adult. 	<p>I will:</p> <ul style="list-style-type: none"> • Cut fruit and vegetables with a knife using a <u>claw grip</u>. • Measure and weigh using <u>electronic scales</u>. • Use a <u>juicer</u> and <u>blender</u> • Cook food safely • Follow basic food hygiene. • Follow simple recipes with increased independence.

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		<ul style="list-style-type: none">• Describes a range of different food textures and tastes when cooking and notices changes when they are combined or exposed to hot and cold.	<ul style="list-style-type: none">• Begin to follow simple recipes supported by an adult.	
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Textiles

Nursery – Little Fawns	Nursery – Little Owls	Reception	Year 1	Year 2
<p>I can use my sensory experiences to explore different materials.</p>	<p>I can manipulate string through a stiff card loom.</p>	<p>I can design, make and evaluate a Christmas decoration.</p>	<p>I can design, make and evaluate a puppet from a familiar story.</p> <p>POAP - <u>Templates and joining</u> Supporting materials - Puppets</p>	<p>I can design, make and evaluate a Christmas bauble for a present.</p> <p>POAP - <u>Templates and joining</u> Supporting materials - Joining and fixing fabrics</p>
<p>I know:</p> <ul style="list-style-type: none"> • Textiles are all around me. 	<p>I know:</p> <ul style="list-style-type: none"> • Textiles are different and show preferences for likes and dislikes. 	<p>I know:</p> <ul style="list-style-type: none"> • The properties of different textiles. • Textiles have different purposes eg. waterproof, soft etc. 	<p>I know:</p> <ul style="list-style-type: none"> • How to plan ideas and develop through the making process. 	<p>I know:</p> <ul style="list-style-type: none"> • How to plan and develop ideas through drawing, talking, templates and mock-ups.

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<p>I will:</p> <ul style="list-style-type: none">• Use my senses to explore different materials.• Handle and manipulate different materials in the world around me.	<p>I will:</p> <ul style="list-style-type: none">• Begin to express my feelings about the colour, texture and shape of different textiles.• Manipulate string through a stiff card loom.	<p>I will:</p> <ul style="list-style-type: none">• Use a range of small tools to cut and join textiles using glue, stapler and tape.	<p>I will:</p> <ul style="list-style-type: none">• Join pre-cut textiles using a running stitch.• Decorate by cutting out small textile pieces and choosing materials to suit design.• Join using chosen method.	<p>I will:</p> <ul style="list-style-type: none">• Colour and decorate textiles using a number of techniques (eg. dyeing, adding sequins or printing).• Use a template to draw round and cut out shape.• Join textiles using running and/or over stitch.
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Mechanisms

Nursery – Little Fawns	Nursery – Little Owls	Reception	Year 1	Year 2
<p>I can use flaps, levers and sliders on familiar toys.</p>	<p>I can use flaps, levers and sliders in books.</p>	<p>I can design, make and evaluate my own lift the flap page for a class book.</p>	<p>I can design, make and evaluate an Antarctica scene using sliders and levers.</p> <p>POAP - <u>Levers and sliders</u> Supporting materials - moving pictures and LGP sliders and levers.</p>	<p>I can design, make and evaluate a vehicle using wheels and axels for a purpose.</p> <p>POAP - <u>Wheels and axles</u> Supporting materials - Let's look at vehicles.</p>
<p>I know:</p> <ul style="list-style-type: none"> • How to use levers, sliders and lift the flaps on familiar toys 	<p>I know:</p> <ul style="list-style-type: none"> • How to use levers, sliders and lift the flaps in books with increased control and care. 	<p>I know:</p> <ul style="list-style-type: none"> • How to create a tab for a lift the flap page in a class book. 	<p>I know:</p> <ul style="list-style-type: none"> • How levers and sliders work. 	<p>I know:</p> <ul style="list-style-type: none"> • How to use construction kits with wheels and axles to make a product that moves.

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<p>I will:</p>	<p>I will:</p> <ul style="list-style-type: none">• Begin to handle and use scissors to experiment with simple cutting.• Join materials together using glue.	<p>I will:</p> <ul style="list-style-type: none">• Hold scissors correctly to cut along straight lines with accuracy,• Create a tab by folding a piece of paper and attaching it by using glue with accuracy on a small area.	<p>I will:</p> <ul style="list-style-type: none">• Cut with increased accuracy along different shaped lines with different directions.• Join materials to assemble parts to create a slider and lever.	<p>I will:</p> <ul style="list-style-type: none">• Mark out, hold, cut and join materials and components correctly.
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Structures

Nursery – Little Fawns	Nursery – Little Owls	Reception	Year 1	Year 2
<p>I can use simple age appropriate construction kits to join pieces together.</p>	<p>I can use construction kits to join pieces together with increased independence.</p>	<p>I can design, make and evaluate a bridge for Three Billy Goats Gruff. GROUP learning</p>	<p>I can design, make and evaluate a home/shelter for an animal to suit its needs. GROUP learning</p> <p>POAP - <u>freestanding structures</u></p> <p>Supporting materials - Whose Home? Door hinges</p>	<p>I can design, make and evaluate my own freestanding den GROUP learning</p> <p>POAP - <u>freestanding structures</u></p>
<p>I know:</p> <ul style="list-style-type: none"> • How to explore different construction kits 	<p>I know:</p> <ul style="list-style-type: none"> • How to build walls, towers and frameworks. 	<p>I know:</p> <ul style="list-style-type: none"> • That some materials can make my structure stronger. • That how I join my materials together can 	<p>I know:</p> <ul style="list-style-type: none"> • How to plan and develop ideas through drawing and talking. 	<p>I know:</p> <ul style="list-style-type: none"> • How to create a free standing structure for a purpose • The suitability of materials for the product according to their

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		make my structure stronger.		properties..
<p>I will:</p> <ul style="list-style-type: none"> • Make dens in the garden. 	<p>I will:</p> <ul style="list-style-type: none"> • Join pieces of construction together. • Uses various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces • Uses tools for a purpose 	<p>I will:</p> <ul style="list-style-type: none"> • Experiment with cutting, folding, joining and fixing reclaimed materials together. • Cut to create desired shape. • Join materials together using glue and masking tape. • Use my increasing knowledge and understanding of tools and materials to explore my interests and enquiries and 	<p>I will:</p> <ul style="list-style-type: none"> • Measure, mark out, cut, shape, join and use finishing techniques using a range of tools. • Add a door hinge experimenting with different ways. 	<p>I will:</p> <ul style="list-style-type: none"> • Build structures, exploring how they can be made stronger, stiffer and more stable e.g. Is my structure free standing? • Use ropes where necessary to make joins.

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		develop my thinking		
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