

ELG + Subject Area: EYFS Expressive Arts + Design & KS1 Design & Technology

Question-based Learning Project	Intent To know...	'Sticky Knowledge' Interesting Facts EYFS & National Curriculum		Cultural Capital	Vocabulary
<p>Nursery</p> <p>Why do you love me so much?</p> <p>Why do leaves go crispy?</p> <p>How does that building stay up?</p>	<ul style="list-style-type: none"> - how to create a paper plate collage of their face - how to create a 3D firework rocket using collage materials and a kitchen roll tube - how to make stick man from a kitchen roll tube and natural materials - how to make a playdough owl using natural resources - how to make a 3D house and bridges from junk modelling 	<p><i>*people have different coloured eyes and different coloured hair</i></p> <p><i>*different fireworks create different sounds, shapes and colours</i></p> <p><i>*Stickman was written by Julia Donaldson, who also wrote the Gruffalo</i></p> <p><i>*Owls can't smell very well and they use their eyes and ears to help them catch food</i></p> <p><i>* Tiles are used on a roof and cement is used as a special glue</i></p>	<p>3-4 years:</p> <ul style="list-style-type: none"> - explore different materials freely in order to develop their ideas about how to use them and what to make - join different materials & explore different textures - explore different materials freely in order to develop their ideas about how to use them and what to make - join different materials & explore different textures - join different materials & explore different textures - join different materials & explore different textures - explore different materials freely in order to develop their ideas about how to use them and what to make 	<ul style="list-style-type: none"> -mirror work -watch firework displays on the IWB (connected to Diwali) Look for 'stickman' during our Forest School session Watch videos of real owls - Walk around Kilburn looking at the different bridges, buildings 	<ul style="list-style-type: none"> - face, hair, shape, eyes, nose, mouth, chin, cheek, glue, scissors, spread, stick -glue, scissors, spread, stick, attach, press, dry, fire, whoosh -stick, leaves, body, eyes, arms, legs -owl, owlet, beak, eyes, feathers, claws - build, stack, balance, construct, stick, bridge, cross

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<p>Are eggs alive?</p>	<p>materials and construction kits</p> <ul style="list-style-type: none"> - that different textured collage materials can be used to make their houses and collages of houses - about real building tools -how to use ice cubes to make an igloo -how to make a large scale model - how to use different textured collage materials 	<ul style="list-style-type: none"> *The Three little pig’s story is a fairy tale. *hammers are a very old tool *an igloo is a house made of snow *Chinese dragons are used in the celebrations for Chinese New Year *a baby sheep is called a lamb, a baby pig is called a piglet, a baby cow is called a calf and a baby horse is called a foal 	<ul style="list-style-type: none"> - join different materials & explore different textures - develop their own ideas and then decide which materials to use to express them -join different materials & explore different textures -join different materials & explore different textures - join different materials & explore different textures 	<p>and any houses being built</p> <ul style="list-style-type: none"> -under closer supervision introduce a real work bench with real tools - look at pictures and videos of real igloos -Watch Let’s celebrate Chinese New Year (CBeebies) - Incubate eggs to hatch into chicks. Local farmer to bring in ducklings and lamb 	<ul style="list-style-type: none"> -straw, sticks, bricks, strong, weak, wobbly, blow, wolf -hammer, nails, screwdriver, screw, nuts, -build, snow, ice, col, melting, slippy -celebration, party, dragon -mummy, baby, foal, calf, piglet, lamb, chick -stick, glue, scrunch, press, print
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<p>Why can't I have chocolate for breakfast?</p>	<ul style="list-style-type: none"> - how to create a chick collage - that reclaimed materials can make a caterpillar - ways to attach materials together (split pin ladybird) - that vegetables can be used to create a model (Supertato) - how to use different textured collage materials (our favourite food) 	<ul style="list-style-type: none"> *chicks have an 'egg' tooth on their beak to help them crack out of the shell *it takes 14 days for a caterpillar to emerge from a cocoon into a butterfly *There are lots of different types of ladybirds including ladybirds with black bodies and red spots! *crisps are made from potatoes *pizza is from a country called Italy 	<ul style="list-style-type: none"> - join different materials & explore different textures - join different materials & explore different textures -join different materials & explore different textures -join different materials & explore different textures -Develop their own ideas and then decide which materials to use to express them 	<ul style="list-style-type: none"> -See above -care for caterpillars as they turn into butterflies -mini- beast hunt during forest schools -grow real potatoes -breakfast in nursery with some of our favourite foods 	<ul style="list-style-type: none"> -stick, feathers, soft, fluffy, tickly -caterpillar, cocoon, body, eyes - split pin, attach, bend, care, move - googly eyes, split pins, belt, mask, attach, stick, bend - stick, cut, glue, bend, wrap, fold, scrunch, paper plate
<p>How many pebbles on the beach?</p>	<ul style="list-style-type: none"> - how to construct a boat with reclaimed materials -how to paper weave 	<ul style="list-style-type: none"> *Boats can be made from plastic, wood or metal! *you can weave with material, wool, ribbon and paper 	<ul style="list-style-type: none"> Develop their own ideas and then decide which materials to use to express them -join different materials & explore different textures 	<ul style="list-style-type: none"> 'Beach day' in the nursery garden including toy boats in the paddling pool. -look at different types of weaving 	<ul style="list-style-type: none"> - sail, stick, float, sink, attach, glue, stick - weave, in, out, under, over

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<p>Reception</p> <p>What Do I Celebrate?</p> <p>Do You Fly, Walk or Swim?</p> <p>Are we there yet?</p>	<p>- different materials can be used to design and make a diva lamp</p> <p>- different materials can be used to design, make and evaluate a sock puppet</p> <p>- different materials can be used to design, make and evaluate a 3d vehicle model</p>	<p>* Diwali is the Hindu festival of light</p> <p>* Snakes used to have legs many years ago</p> <p>* Some snakes have legs under their skin</p> <p>* The first electric tram in England was opened in 1885 in Blackpool</p>	<p>Reception</p> <p>- explore, use and refine a variety of artistic effects to express their ideas and feelings.</p> <p>- return to and build on their previous learning, refining ideas and developing their ability to represent them.</p> <p>- create collaboratively sharing ideas, resources and skills.</p> <p><u>ELG -Creating with Materials</u></p> <p>- safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</p> <p>- share their creations, explaining the process they have used.</p> <p><u>ELG - Physical Development</u></p> <p>- Develop their small motor skills so that they can use a range of tools competently, safely and confidently. Suggested tools: pencils for drawing and writing, paintbrushes, scissors, knives, forks and spoons.</p> <p><u>ELG</u></p> <p>- Use a range of small tools, including scissors, paintbrushes and cutlery.</p> <p>- Begin to show accuracy and care when drawing</p>	<p>- Diwali celebrations</p> <p>- reptile handling experience</p> <p>- visit to Crich Tramway Museum</p>	<p>- design, make, choose choice, individual, idea</p> <p>- evaluate, decide</p> <p>- sculpture, model, tool, material</p>
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<p>Year 1</p> <p>What will you see in Space?</p> <p>What can you tell me about London?</p>	<p>- how to design rockets/moon buggies using axles</p> <p>- how to design a moving picture using levers and sliders</p>	<p><i>* Apollo 11 was the first rocket to the moon</i></p> <p><i>* There are 775 rooms in Buckingham Palace</i></p>	<p>Design</p> <p>- design purposeful, functional appealing products for themselves & other users based on design criteria</p> <p>- generate, develop, model & communicate their own ideas through talking, drawing templates, mock-ups, & where appropriate, information & communication technology</p>	<p>- visit to the Space Centre</p> <p>- Afternoon tea with the Queen</p>	<p>- design</p>
<p>Year 2</p> <p>What makes a Magnificent Monarch?</p>	<p>- how to design, make, evaluate, technical knowledge</p> <p>- how to design a castle using hinges & pulley</p>			<p>- visit to Bolsover Castle</p>	
<p>Who lives in a habitat like this?</p>	<p>- how to design a hand puppet</p>			<p>- visit to Yorkshire Wildlife Park</p>	<p>- product</p> <p>- criteria</p> <p>- mock up</p> <p>- template</p>
<p>Why should we protect our planet?</p>	<p>- how to design a healthy wrap</p>			<p>- Beach Day</p>	

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<p>How did we travel from then to now?</p>	<p>- how to design a moving vehicle with a fixed/non-fixed axle</p>			<p>- visit to Newark Air Museum</p>	<p>- fixed axle - rotate</p>
<p>Year 1 What will you see in Space?</p>	<p>- how to make rockets/moon buggies exploring different joining techniques</p>	<p><i>* Apollo 11 was the first rocket to the moon</i></p>	<p>Make - select from & use a range of tools & equipment to perform practical tasks e.g. cutting, shaping, joining, finishing - select from & use a wide range of materials & components including construction materials, textiles & ingredients, according to their components</p>	<p>- visit to the Space Centre - Afternoon tea with the Queen</p>	<p>- cutting - shaping</p>
<p>What can you tell me about London?</p>	<p>- how to make a moving picture exploring different joining techniques</p>	<p><i>* There are 775 rooms in Buckingham Palace</i></p>			
<p>Year 2 What makes a Magnificent Monarch?</p>	<p>- how to make a castle using a saw & selecting the most effective joining techniques</p>			<p>- visit to Bolsover Castle</p>	<p>- joining - finishing - cutting</p>
<p>Who lives in a habitat like this?</p>	<p>- how to make a hand puppet</p>				

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<p>How did we travel from then to now?</p> <p>Why should we protect our planet?</p>	<p>- how to make a moving vehicle</p> <p>- how to make a healthy wrap</p>			<p>- use produce grown from Owl garden</p>	
<p>Year 1</p> <p>What will you see in Space?</p> <p>What can you tell me about London?</p> <p>Year 2</p> <p>What makes a Magnificent Monarch?</p> <p>Who lives in a habitat like this?</p>	<p>- that we can evaluate own rockets/moon buggies we have made</p> <p>- that we can evaluate own moving picture we have made</p> <p>- that we can evaluate own castle we have made</p> <p>- that we can evaluate their own hand puppet</p>	<p><i>* Apollo 11 was the first rocket to the moon</i></p> <p><i>* There are 775 rooms in Buckingham Palace</i></p>	<p>Evaluate</p> <p>- explore & evaluate a range of existing products</p> <p>- evaluate their ideas & products against design criteria</p>	<p>- visit to the Space Centre</p> <p>- Afternoon tea with the Queen</p> <p>- visit to Bolsover Castle</p>	<p>- evaluate</p> <p>- product</p> <p>- design</p>

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<p>Why should we protect our planet?</p> <p>How did we travel from then to now?</p>	<p>- that we can evaluate own healthy wrap</p> <p>- we can evaluate own vehicle</p>			<p>- Beach Day</p> <p>- use produce grown from Owl garden</p> <p>- visit to Newark Air Museum</p>	<p>- fixed axle</p> <p>- rotate</p> <p>- non fixed</p>
<p>Year 1</p> <p>What will we see in Space?</p> <p>What can you tell me about London?</p> <p>Year 2</p> <p>What makes a Magnificent Monarch?</p>	<p>- how to make a moon buggy using wheels & axles</p> <p>- how to make moving pictures using levers & sliders</p> <p>- how to make a castle using effective cutting techniques</p>	<p><i>* Apollo 11 was the first rocket to the moon</i></p> <p><i>* There are 775 rooms in Buckingham Palace</i></p> <p><i>* At Warwick Castle the Gatehouse Towers were built later</i></p>	<p>Technical Knowledge</p> <p>- build structures, exploring how they can be made stronger, stiffer & more stable</p> <p>- explore & use mechanisms in their products e.g. levers, sliders, wheels, axles</p>	<p>- visit to the Space Centre</p> <p>- Afternoon tea with the Queen</p>	<p>- strong</p> <p>- stiff</p> <p>- stable</p> <p>- lever</p> <p>- sliders</p> <p>- wheels</p> <p>- axles</p> <p>- strength</p> <p>- stability</p> <p>- structure</p>

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<p>Who lives in a habitat like this?</p>	<ul style="list-style-type: none"> - how to sew - how to make a hand puppet exploring the most effective joining techniques 			<ul style="list-style-type: none"> - visit to Yorkshire Wildlife Park 	<ul style="list-style-type: none"> - mock up, template - cutting, joining - winder - mechanism - test
<p>How did we travel from then to now?</p>	<ul style="list-style-type: none"> - how to make a moving vehicle with a fixed/non-fixed axle 				