

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

Question-based Learning Project	Intent	'Sticky Knowledge'		Cultural Capital	Vocabulary
	To know...	Interesting Facts	EYFS & National Curriculum		
Nursery <i>Why do you love me so much?</i> <i>Why do leaves go crispy?</i> <i>How does that building stay up?</i>	- how to create a paper plate collage of their face	<i>*people have different coloured eyes and different coloured hair</i>	3-4 years: - 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	-mirror work	- face, hair, shape, eyes, nose, mouth, chin, cheek, glue, scissors, spread, stick
	- how to create a 3D firework rocket using collage materials and a kitchen roll tube	<i>*different fireworks create different sounds, shapes and colours</i>	- 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	-watch firework displays on the IWB (connected to Diwali)	-glue, scissors, spread, stick, attach, press, dry, fire, whoosh
	- how to make stick man from a kitchen roll tube and natural materials	<i>*Stickman was written by Julia Donaldson, who also wrote the Gruffalo</i>	- join different materials & explore different textures	Look for 'stickman' during our Forest School session	-stick, leaves, body, eyes, arms, legs
	- how to make a playdough owl using natural resources	<i>*Owls can't smell very well and they use their eyes and ears to help them catch food</i>	- join different materials & explore different textures	Watch videos of real owls	-owl, owlet, beak, eyes, feathers, claws
	- how to make a 3D house and bridges from junk modelling	<i>* Tiles are used on a roof and cement is used as a special glue</i>	- explore different materials freely in order to develop their ideas about how to use them and what to make	- Walk around Kilburn looking at the different bridges, buildings	- build, stack, balance, construct, stick, bridge, cross

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	materials and construction kits - 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	*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	- 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	and any houses being built -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)	-straw, sticks, bricks, strong, weak, wobbly, blow, wolf -hammer, nails, screwdriver, screw, nuts, -build, snow, ice, col, melting, slippery -celebration, party, dragon
Are eggs alive?	- how to use different textured collage materials	*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	- join different materials & explore different textures	- Incubate eggs to hatch into chicks. Local farmer to bring in ducklings and lamb	-mummy, baby, foal, calf, piglet, lamb, chick -stick, glue, scrunch, press, print

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Why can't I have chocolate for breakfast?	- how to create a chick collage	*chicks have an 'egg' tooth on their beak to help them crack out of the shell	- join different materials & explore different textures	-See above	-stick, feathers, soft, fluffy, tickly
	- that reclaimed materials can make a caterpillar	*it takes 14 days for a caterpillar to emerge from a cocoon into a butterfly	- join different materials & explore different textures	-care for caterpillars as they turn into butterflies	-caterpillar, cocoon, body, eyes
	- ways to attach materials together (split pin ladybird)	*There are lots of different types of ladybirds including ladybirds with black bodies and red spots!	-join different materials & explore different textures	-mini- beast hunt during forest schools	- split pin, attach, bend, care, move
	- that vegetables can be used to create a model (Supertato)	*crisps are made from potatoes	-join different materials & explore different textures	-grow real potatoes	- googly eyes, split pins, belt, mask, attach, stick, bend
How many pebbles on the beach?	- how to use different textured collage materials (our favourite food)	*pizza is from a country called Italy	-Develop their own ideas and then decide which materials to use to express them	-breakfast in nursery with some of our favourite foods	- stick, cut, glue, bend, wrap, fold, scrunch, paper plate
	- how to construct a boat with reclaimed materials	*Boats can be made from plastic, wood or metal!	Develop their own ideas and then decide which materials to use to express them	'Beach day' in the nursery garden including toy boats in the paddling pool.	- sail, stick, float, sink, attach, glue, stick
	-how to paper weave	*you can weave with material, wool, ribbon and paper	-join different materials & explore different textures	-look at different types of weaving	- weave, in, out, under, over

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Reception What Do I Celebrate? Do You Fly, Walk or Swim? Are we there yet?	- different materials can be used to design and make a diva lamp - different materials can be used to design, make and evaluate a sock puppet - different materials can be used to design, make and evaluate a 3d vehicle model	* Diwali is the Hindu festival of light * Snakes used to have legs many years ago * Some snakes have legs under their skin * The first electric tram in England was opened in 1885 in Blackpool	Reception - explore, use and refine a variety of artistic effects to express their ideas and feelings. - return to and build on their previous learning, refining ideas and developing their ability to represent them. - create collaboratively sharing ideas, resources and skills. <u>ELG -Creating with Materials</u> - 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. <u>ELG - Physical Development</u> - 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. <u>ELG</u> - Use a range of small tools, including scissors, paintbrushes and cutlery. - Begin to show accuracy and care when drawing	- Diwali celebrations - reptile handling experience - visit to Crich Tramway Museum	- design, make, choose choice, individual, idea - evaluate, decide - sculpture, model, tool, material
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Year 1 What will you see in Space? What can you tell me about London?	- how to design rockets/moon buggies using axles - how to design a moving picture using levers and sliders	<i>* Apollo 11 was the first rocket to the moon</i> <i>* There are 775 rooms in Buckingham Palace</i>	Design - design purposeful, functional appealing products for themselves & other users based on design criteria - generate, develop, model & communicate their own ideas through talking, drawing templates, mock-ups, & where appropriate, information & communication technology	- visit to the Space Centre - Afternoon tea with the Queen	- design
Year 2 What makes a Magnificent Monarch?	- how to design, make, evaluate, technical knowledge - how to design a castle using hinges & pulley	<i>* Medieval castle toilets were holes in a bench called Garderobes. The poo would fall outside into a moat</i>		- In school.. visit by Alfresco learning.. 'Kings + Queens' workshop	
Who lives in a habitat like this?	- how to design a hand puppet	<i>* It is believed that puppet shows date back 4000 years to ancient Egyptian tombs</i>		- visit to Yorkshire Wildlife Park	- product - criteria - mock up - template
Why should we protect our planet?	- how to design a healthy wrap			- Beach Day	

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How did we travel from then to now? Year 1 What will you see in Space? What can you tell me about London? Year 2 What makes a Magnificent Monarch? Who lives in a habitat like this?	- how to design a moving vehicle with a fixed/non-fixed axle - how to make rockets/moon buggies exploring different joining techniques - how to make a moving picture exploring different joining techniques - how to make a castle using a saw & selecting the most effective joining techniques - how to make a hand puppet	* Wheels used to be made of wood, carved from logs <i>* Apollo 11 was the first rocket to the moon</i> <i>* There are 775 rooms in Buckingham Palace</i>	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	- visit to Newark Air Museum - visit to the Space Centre - Afternoon tea with the Queen - In school.. visit by Alfresco learning.. 'Kings + Queens' workshop	- fixed axle - rotate - cutting - shaping - joining - finishing - cutting
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How did we travel from then to now? Why should we protect our planet?	- how to make a moving vehicle - how to make a healthy wrap	* Wheels used to be made of wood, carved from logs		- use produce grown from Owl garden	
Year 1 What will you see in Space? What can you tell me about London? Year 2 What makes a Magnificent Monarch? Who lives in a habitat like this?	- that we can evaluate own rockets/moon buggies we have made - that we can evaluate own moving picture we have made - that we can evaluate own castle we have made - that we can evaluate their own hand puppet	<i>* Apollo 11 was the first rocket to the moon</i> <i>* There are 775 rooms in Buckingham Palace</i>	Evaluate - explore & evaluate a range of existing products - evaluate their ideas & products against design criteria	- visit to the Space Centre - Afternoon tea with the Queen - In school.. visit by Alfresco learning.. 'Kings + Queens' workshop	- evaluate - product - design

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

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Who lives in a habitat like this?	- how to sew - how to make a hand puppet exploring the most effective joining techniques			- visit to Yorkshire Wildlife Park	- mock up, template - cutting, joining
How did we travel from then to now?	- how to make a moving vehicle with a fixed/non-fixed axle				- winder - mechanism - test