THE REAL PROPERTY AND A DECEMBER OF A DECEMB	Skelton School Design and Technology - Curriculum Map				
(1 year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
cycle)					

		Des	Skelton Schoo sign and Technology - Cu	-		
joining, weav	Autumn 1 e numerous opportunities throughout the EYFS to o ving, assembling, problem solving, building structur oles of adult led sessions below.	Autumn 2 levelop early skills which are crucial in later [Spring 1	Spring 2	Summer 1 Dlay-based approach alongside adult lec	Summer 2 I sessions. Examples of this include – cutting, sewing,
• EYFS	 All about me Food – Healthy Eating Learn about the basic principles of a healthy and balanced diet and the importance of fruit and vegetables. Learn about the importance of basic hygiene. Sample a range of different fruits and vegetables. Use tools to chop and assemble fruit kebabs. Evaluate. 	Travel and Transport Materials/construction – Recycled material vehicles. 1. Learning about different vehicles. 2. Designing what they would like their finished product to look like. Thinking about the materials they will use. 3. Make – cutting skills, joining skills, experimenting with different materials and tools and problem solving. 4. Evaluate – What do they like/dislike?	Space Materials/construction – Papier Mache Planets 1. Learning about the planets – key features. 2. Make collaboratively using a range of new skills, ensuring a strong structure. 3. Evaluate.	Growing and Changing	Fairy Tales	Under the Sea Materials/construction - Recycling project. 1. Learn about properties of different materials that can be recycled. 2. Collaborate to create a whole class project using only recycled materials (child led so finished products will differ year on year) 3. Evaluate
Links	Fruit salad project KS1 Seasonal foods LKS2	Recycled musical instruments KS1 Wheeled bathing machines KS1				Recycled musical instruments KS1

In Reception, the seasons topic runs throughout the year and provides opportunities for skills and knowledge-based sessions which feed into the; communication and language, personal, social and emotional development, physical development, understanding the world and expressive art and design areas of learning, along with others. These include activities such as; soup making, working in the growing garden, baking, constructing bird feeders, greetings card making and other craft activities.

Years 1-6 Cycle A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Year 1 and 2	 Materials Materials/construction - Recycled materials musical instruments. 1. Evaluate a range of existing products (real musical instruments) identifying key features for both functionality and visual appeal. 2. Design own musical instrument. Generate ideas through discussion, drawing and labelling. Focus on functionality and appeal, how will it make a sound and what features are there to make it look nice. 3. Constructing musical instrument from recycled materials. Select from and use a range of tools to perform practical tasks. Select from and use a wide range of materials and components. Build structures exploring how they can be made stronger, stiffer and more stable. 4. Midway evaluation. What is working and how can we make them better, revisit initial designs etc. 5. Continue to construct/improve model. 6. Evaluate model against design criteria and existing products. Assess selves throughout the process, which aspects were difficult and how were these overcome, where have we improved. 	<u>Materials</u>	This is where we live Food – Traditional English scones. 1. Explore and evaluate a range of different products. Trying plain, fruit and cheese scones. Discussing food groups etc. Understand where food comes from. 2. Design own scones. Choose flavour and shape. Draw and label design. 3. Prepare and cook scones following a simple recipe. Select from and use a wide range of tools and equipment to perform practical tasks. Select from and use a wide range of ingredients according to their characteristics. 4. Evaluate design against design criteria and compare to existing products.	This is where we live	Habitats Materials/constructi enhancements. 1. Explore existing pr visual appeal and fun bird feeders, bug hote pond ramps etc. 2. Design own habita about the function an design. Which materi etc. Draw and label. 3. Create mock up of Following initial desig mock up using card to understanding of the 4. Make the habitat e from and use a range practical tasks. Selec range of materials an on their characteristic exploring how they ca stiffer and more stabl 5. Evaluate own idea: criteria. 6. Ongoing evaluation the environment, how are they being used a
Links			LKS2 – Seasonal foods		UKS2 - Labyrinths

In KS1, the seasons topic runs throughout the year and provides opportunities for skills and knowledge-based sessions which work towards the Design and Technology National Curriculum objectives along with others. These include activities such as; soup making, working in the growing garden, baking, constructing bird feeders, greetings card making and other craft activities.

	Summer 2
	Habitats
ction – Habitat	<u>nasilato</u>
g products, look at the function of bird houses, lotels, hedgehog hides,	
vitat enhancement. Think and purpose of this erials will be most suitable el. of design using card. sign sketches create d to get a better he making process. t enhancement. Select nge of tools to perform lect from and use a wide and components based stics. Build structures, or can be made stronger, able. eas against design tion once products are in now are they weathering,	
d as was intended?	

Year 3 and 4	Anglo-Saxons, Vikings & Scots	 <u>Anglo-Saxons, Vikings & Scots</u> <u>Construction</u> - Packaging 1. Investigate a range of packaging 2. To construct nets for 3D shaped packaging 3. To explore the use of graphics on packaging 4. To design a package for a purpose 5. To make a packaging box following a design 6. To evaluate the finished product 	Ancient Egypt	 Ancient Egypt LED Circuits – Light up signs To investigate and analyse illuminated signs To understand how LEDs may be used instead of traditional incandescent bulbs in series circuits To develop ideas for a decorative illuminated sign To select and use tools, equipment, materials and components to make the enclosure of a decorative illuminated sign To construct a working circuit with one or more lights and fit it in a decorative illuminated sign. To investigate ways in which computers can be used to program and control lights in a product. 	Plants of the world
Links				UKS2 – Computer systems	
Year 5 and 6	 Exploration Food - Making Bread 1. To investigate and evaluate bread products according to their characteristics. 2. To learn how bread products are an important part of a balanced diet and can be eaten in different ways. 3. To find out which different ingredients are needed to make bread and how ingredients can be altered and mixed to create different effects. 4. To be able to design a new bread product for a particular person or event. 5. To be able to make bread based on a plan and design. 6. To be able to evaluate a finished product. 	Exploration	Ancient Islamic Civilisation		Ancient Greece Materials/Construct 1. Read a understand 2. Look at a labyrinth de for features 3. Design a labyrinth de measureme 4. Use a rang smoothing materials labyrinth. 5. Evaluate th and areas areas of th to change
Links	KS1 – Scones				KS1 – Habitat enhan
	LKS2 – Seasonal foods				

	The Lake District – Lakes and Mountains Food – Seasonal food 1. To cook using British ingredients 2. To know how seasonal fruits in Britain are grown and processed 3. To understand why vegetables form an important part of a healthy diet 4. To find out about seasonally produced eat can form part of a heathy diet To know how fish are caught and reared, processed and used in healthy meals KS1 – English scones UKS2 – Making Bread
ction - Labyrinths a Greek myth and nd what a labyrinth is a range of arial view of designs and analyse them es they like a range of their own designs and annotate with ments that they will need. nge of measuring, cutting, g and use a variety of to create a working their design for strengths as for improvement or their design that they had e	Ancient Greece Computer System – ICT with SK 1. To design an electronic product 2. To code and debug a program 3. To create a website 4. To create and edit a video 5. To understand the techniques used in advertising a product
ancements	LKS2 – LED light up signs
	Summer 2

	Myself and other animals	Myself and other animals Food - Making a healthy fruit salad.	My wonderful world and flying high Mechanisms – Moving pictures (flying	My wonderful world and flying high	Seaside holidays Materials/constructi
		1. Evaluating own likes and dislikes –	machines).		– A wheeled bathing
		trying a range of different fruits/existing	1. Evaluate existing products – Look at pre-		1. Evaluate existing p
		products. Understand where food comes	made models. What do we like dislike, which		pictures of Victorian b
		from.	mechanisms are most impressive? Exploring		Identify key features a
		2. Designing purposeful, functional and	how each was constructed.		2. Design own bathing
		appealing products for other users following	2. Designing own moving picture – Choose a		label a mock up.
		design criteria and considering preferences.	mechanism and draw and label a mock up.		3. Make a bathing ma
		Communicating these ideas through	3. Creating own moving picture – Children		boxes, wheels and ax
		discussion and drawing.	create the different elements – background,		use a range of tools to
		3. Good food hygiene practices.	flying machine that will move and components		tasks. Select from an
		4. Use the basic principles of a healthy and	for the mechanism. Then assembling. Select		materials and compor
		varied diet to prepare dishes.	from and use a range of tools and equipment to		mechanisms [wheels
		5. Cutting, slicing, grating and peeling skills	perform practical tasks. Select from and use a		4. Evaluate finished p
		where needed while preparing fruit salad.	wide range of materials and components		criteria. Thinking about
		Select from and use a range of	according to their characteristics. Explore and		visual appeal.
		tools/equipment to perform practical tasks. 6. Evaluate their ideas and products	use mechanisms [for example, levers, sliders] in their products.		
		against design criteria.	4. Evaluate their ideas and products against		
		against design entend.	design criteria. What went well and what could		
		Textiles – Delightful Decorations (Plan	be improved. Which aspects were		
		Bee)	easy/difficult?		
		1. Explore and evaluate a range of existing	5. Edit and improve products, can visual appeal		
		products. Discuss function, visual appeal,	or function be improved, how?		
		likes and dislikes.	6. Re-evaluate.		
		2. Practice cutting skills – Select from and			
		use a range of tools and equipment to			
		perform practical tasks.			
		3. Practice sewing skills - Select from and			
		use a range of tools and equipment to			
		perform practical tasks.			
		4. Design a hanging Christmas decoration			
		- design purposeful, functional, appealing			
		products for themselves and other users			
		based on design criteria. Generate, develop, model and communicate their			
		ideas through talking, drawing and			
		templates.			
		5. Make a Christmas decoration - Select			
		from and use a range of tools and			
		equipment to perform practical tasks.			
		Select from and use a wide range of			
		materials and components, including			
5		textiles and embellishments according to			
Year 1 and 2		their characteristics.			
-		 Evaluate Christmas decoration – 			
ear		Evaluate their ideas and products against			
		design criteria.			
Links		EYFS – Healthy eating LKS2 – Seasonal foods	LKS2 – Moving storybooks		EYFS – Recycled ma UKS2 – CAM and foll
		LKS2 – Seasonal Stockings			
In KS1 the st	acone tonic rune throughout the year and aroutdee	UKS2 – A Stuffed Christmas Decoration	 In sessions which work towards the Design and	Lashnology National Curriculum abientius	a along with others. The
	easons topic runs throughout the year and provides en, baking, constructing bird feeders, greetings car		a sessions which work towards the Design and	r rechnology National Curriculum objective	s along with others. The

growing garden, baking, constructing bird feeders, greetings card making and other craft activities.

	Dist
	<u>Plants</u>
ction and mechanisms	
g machine.	
products – Look at	
n bathing machines.	
s and record preferences.	
ing machine – Draw and	
machines using small	
axels - select from and	
s to perform practical	
and use a wide range of	
conents. Explore and use	
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d product against design	
pout functionality and	
naterial vehicles	
ollowers	
nese include activities su	ich as; soup making, working in the

3 and 4	Castles and Dragons	Castles and Dragons Textiles – Seasonal stockings 1. Explore and evaluate a range of existing products with different designs thinking about function and visual appeal. 2. Explore different ways to join fabric using sewing skills. Select from and use different techniques and materials according to functional and aesthetic qualities. 3. Explore different ways to decorate fabric using sewing skills. 4. Design a Christmas stocking – Use research to develop design criteria to inform the design of functional and appealing products. Generate, develop and model ideas through discussion, annotated sketches and pattern pieces. 5. Use sewing skills to create the Christmas stocking – Select from and use a wide range of tools and equipment to perform practical tasks. Select from and use a wide range of materials and components. 6. Evaluate finished product. Evaluate their	Stone Age	 Bronze Age to Iron Age Pneumatics - Moving Monsters Investigate familiar products that need air to make them work Investigate techniques for making simple pneumatic systems Gather ideas for creating moving monsters Design a monster with a moving pneumatic part Make a monster with a moving pneumatic part Evaluate the finished product 	 South America Levers & Linkages 1. To investigate a with levers and l 2. To experiment v techniques to cr mechanisms. 3. To explore and of different fonts techniques. 4. To be able to plastorybook. 5. To be able to moving mechan 6. To be able to ev product.
Year 3		ideas and products against design criteria and consider the views of others to improve their work.			
Links		KS1 – Delightful Decorations UKS2 – A stuffed Christmas decoration		KS1 – Moving Pictures UKS2 – CAM and follower links	KS1 – Moving flying
Year 5 and 6	Liverpool	Liverpool Textiles- Making a stuffed Christmas decoration LINKS- KS1, LKS2 Christmas sewing · 1. Evaluating existing products and take inspiration from existing designs. · 2. Design a stuffed decoration, considering the main component shapes and colour. · 3. Create an appropriate template for their stuffed decoration. · 4. Neatly cut out their fabric. · 5. Use appliqué, embroidery or decorative stitching to decorate the front of their stuffed decoration according to their design, adjusting if necessary. · 6. Join two pieces of fabric using an appropriately chosen stitch and hidden stitching. 7. Evaluate their product and the making process by identifying what worked well and areas for improvement.	Survival Mechanical System – Cam and follower Links – Science in Autumn 2 covered forces and mechanisms. 1, Develop a design idea with some descriptive notes. 2, Explore different cam profiles and choose one or two for their follower toppers with an explanation of their choices. 3, Create neat, decorated follower toppers with some accuracy. 4, Measure and cut panels that fit with some inaccuracies to conceal the inner workings of the automata. 5, Decorate and finish the automata to meet the design criteria and brief. 6, Evaluate their finished product, making descriptive and reflective points on function and form.	Survival	Europe Electrical System – Links - Chn will be lead circuits in Science. 1. Identify the cor- steady hand gam researching existi 2.State what they about an existing why. 3. Design a stead their own accordin criteria, using fou perspective drawi 4. Create a secur game, with neat ex- to their design. 5. Make and test and assemble it w
Links		KS1 – Delightful Decorations LKS1 – Seasonal Stockings	KS1 – Wheeled vehicles		LKS2 – Light up Sigr

 s – moving storybooks and evaluate products d linkage systems. t with a range of create moving d experiment with a range nts and graphic plan and design a make a storybook with anisms using a design. evaluate a finished 	Rainforests
g machines	
•	
 Steady hand game learning about electric 	
omponents of a me through sting products. ey like or dislike ng children's toy and	
ady hand game of ding to their design our different wings. ure base for their t edges, that relates	
st a functioning circuit t within a case.	
gns	