Year 4	Design	Make	Evaluate	Technical Knowledge	Food
Key Skills	Generate ideas, considering the purposes for which they are designing Make labelled drawings from different views showing specific features Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail  Evaluate products and identify criteria that can be used for their own designs	Select appropriate tools and techniques for making their product     Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques     Join and combine materials and components accurately in temporary and permanent ways     Sew using a range of different stitches, weave and knit     Measure, tape or pin, cut and join fabric with some accuracy     Use simple graphical communication techniques	Evaluate their work both during and at the end of the assignment     Evaluate their products carrying out appropriate tests	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures     Understand and use mechanical systems in their products.     Understand and use electrical systems in their products.	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques  Understand seasonality, and know where and how a variety of ingredients are grown and processed.
Assessment	<ul> <li>Can children develop more than one design or adaptation of an initial design?</li> <li>Are children able to propose realistic suggestions as to how they can achieve their design ideas through notes on drawings?</li> <li>Can children think ahead about the order of their work and decide upon tools and materials needed?</li> </ul>	<ul> <li>Can ch make a decorated piece of textile using the main stitches?</li> <li>Can children incorporate a circuit into a useful product?</li> <li>Can ch cut internal shapes and use linkages/levers within a popup?</li> </ul>	Consider and explain how the finished product could be improved     Can children discuss how well the finished product meets the design criteria and how well it meets the needs of the user?	<ul> <li>Can children explain how a pneumatic system works?</li> <li>Are children able to make a circuit with a switch?</li> </ul>	<ul> <li>Are children able to describe the ingredients they are using?</li> <li>Can children follow a written set of instructions?</li> </ul>

Term	Content/unit/topic	Curriculum links	Key facts	Key vocab
Autumn 1	<u>Science</u>	<u>Science</u>	Revisit creating a simple circuit and	Design,
	Kapow: Electrical systems: Torches	Link to Electricity	switches.	evaluate,
	Create a torch using electrical circuits using	topic.	Evaluate different torches and identify	circuit,
	knowledge of electrical systems and scientific		features.	switches,
	understanding.		Create own design incorporating the	housing,
			features identified.	reflector,
			Build torch, following design plans.	conductors,
			Evaluate effectiveness of torch.	insulators,
				batteries,
				assemble.
		Geography/History		Settlements,
	<u>Settlements</u>	Link to Early	Settlements need to be close to a water	3D, shelter,
	Create a 3D settlement using a range of materials.	Settlers topic.	source, shelter, a flat area of land and	water source,
			somewhere accessible for resources, but	resources,
			without easy invasion from enemies.	invasion,
			Design what their settlement will look	materials.
			like and then try to create this as a 3D	
			project using a range of materials.	

Autumn 2	<u>Ice Palace</u>	<u>English</u>	Plan their ice palace and think about how	Features,
	Kapow: Structures	Links to Ice Palace	they want it to look / what features it will	resources,
	Create a 3D model of an ice palace.	topic.	have.	purpose,
			Collect resources that will be useful for	structure.
			their purpose e.g. cardboard for	
			structure.	
		<u>Christmas</u>		Template,
				design,
			Draw desired design onto paper before	embellishments,
			cutting it out or use a template.	thread.
			Add embellishments or decorations to	
			decoration.	
	<u>Christmas</u>		Using a hole at the top of the decoration,	
	Create own Christmas tree/winter decoration.		thread string through and tie both ends	
			together to create a hanging decoration.	
Spring 1	Art Term	<u>History</u>	Look at Anglo Saxon shields- identify	Design,
		Links to Anglo-	features- shape, colours.	evaluate,
	Anglo-Saxon Shield	Saxon and Vikings	Experiment with different possible	materials,
	Children to design and create their own Anglo-Saxon	topic.	designs.	Celtic,
	shield inspired by typical Anglo-Saxon designs.		Choose one design to create shield.	symmetry.
			Design to include a handle, within the	
			design.	
			Choose materials to use.	
	Anglo-Saxon		Evaluate effectiveness of the shield.	
	brooches/necklaces			
	Research and create Anglo-Saxon inspired brooches			
	or necklaces.	<u>History</u>	1	Brooches,
		Links to Anglo-	Look at Anglo Saxon brooches or	necklace,
		Saxons topic.	necklaces- identify features- shape,	designs,
			colours.	features,
			Experiment with different possible	experiment,
			designs.	

			Choose one design to use or use as inspiration. Choose materials to use.	inspiration, materials.
Spring 2	Easter Kapow: Adapting a Recipe. Making Easter biscuits.	Easter Links to RE (Christianity).	Following a recipe. Making and testing a prototype. Adapting a recipe. Cooking safely, following basic hygiene rules. Designing a biscuit. Evaluating a recipe.	Design, recipe, budget, taste, prototype, safely, hygiene, evaluating, smell, texture, appearance, comparing
	Science / Music - homework Children to create a musical instrument from scratch using a range of materials.	Science Links to Sound topic. Music	Children to plan and create a musical instrument of their choice. This can be made using a range of materials, including recyclable materials or household items.  This musical instrument must produce sound and will be presented to the class.	Sound, instrument, materials, recyclable.
Summer 1	Dragons  Make a 3D model of a dragon using pipe cleaners – children design the pipe cleaners into their own unique shape, then measure/mark out/cut the hands/feet/wings to an appropriate size.	English Dragon topic.	Plan how to use materials and the process of designing and making. Evaluating their creation throughout and making changes if necessary. Measure, mark out, cut and shape the small body parts.	Plan, materials, design, evaluate, make, measure, mark out, cut, shape.

	<u>Dragons</u> Make a clay dragon.	<u>English</u>	Mould accurately to ensure correct size	Mould,
		Dragon topic.	proportion of head, body, tail, spikes, legs etc. and to make sure it doesn't break.	proportion, sculpt, accurately.
	<u>Dragons</u> Make a moving dragon using levers/linkages.	English Dragon topic.	Cut paper into accurate strips using a ruler to measure cm. Attach paper together in correct positions. Design own head and tail to attach.	Levers, linkages, position, measure, mechanism.
Summer 2	Vincent Van Gogh – Art Term Sunflower collage	All Around the World Artists from other countries	Look at Van Gogh's Sunflower art work. Individually recreate a part of the art work using tissue paper. Collaboratively put each piece together to form one giant piece of art work.	Collage collaborative