Cycle A

Design Technology Year 5/6

R.c. nimary School 5	Торіс	Curriculum Links	Aims/Activity	National Curriculum Skills	Pupil Knowledge	Vocab
Autumn	Food Glorious Food	Geography Science	Children will explore a range of foods from different countries and cultures. Children then design and make a food that could be eaten at a given celebration.	 Research and evaluate existing products (including book and web based research). Consider user and purpose. Identify the strengths and weaknesses of their design ideas. Consider and explain how the finished product could be improved related to design criteria. Discuss how well the finished product meets the design criteria of the user. Test on the user. Give a report using correct technical vocabulary. Understand how key people have influenced design. Prepare food products taking into account the properties of ingredients and sensory characteristics. Weigh and measure using scales. 	 I can use existing products to make my own. I can carry out my own research. I can carry out a taste test and justify my decisions. I can use technical vocabulary. I can choose my ingredients and give reasons for my choice. I can writ e my own recipe. I can choose a cooking method and carry it out. 	 Taste Spice Heat Seasoning Boil Fry Saute Combine Weigh Measure Safe Hygiene Appearance Test Trial

		 Select and prepare 	
		foods for a particular	
		purpose.	
		 Work safely and 	
		hygienically.	
		 Use a range of cooking 	
		techniques.	
		Know where and how	
		ingredients are grown	
		and processed.	
		 Record ideas using 	
		annotated diagrams.	
		Use models, kits and	
		drawings to help	
		formulate design ideas.	
		Sketch and model	
		alternative ideas.	
		Use researched	
		information to inform	
		decisions.	
		List tools needed before	
		starting the activity.	
		 Plan the sequence of work 	
		e.g. using a storyboard.	
		 Devise step by step plans 	
		which can be	
		read/followed by	
		 Decide which design idea to double n 	
		to develop.	
		 Make prototypes. 	
		 Develop one idea in 	
		depth.	
		Produce detailed lists of	
		ingredients / components	
		/ materials and tools.	
		 Select from and use a 	
		wide range of tools.	
		 Select from and use a 	
		wide range of ingredients.	

			Children will design av d	 Use appropriate finishing techniques for the project. Refine their product – review and rework/improve. 		- Evaloro
Spring	Amazon Adventure	Science Art and Design Geography Computing	Children will design and make a waistcoat or a utility belt that would be useful to an Amazon Explorer.	 Research and evaluate existing products (including book and web based research). Consider user and purpose. Understand how key people have influenced design. Identify the strengths and weaknesses of their design ideas. Use the correct vocabulary appropriate to the project. Create 3-D products using patterns pieces and seam allowance. Understand pattern layout. Decorate textiles appropriately (often before joining components). Pin and tack fabric pieces together. Join fabrics using over sewing, back stitch, blanket stitch or machine stitching (closer supervision). Combine fabrics to create more useful properties. Make quality products 	 I can research and evaluate existing products. I know that a utility piece of clothing has a specific purpose. I can manipulate textiles. I can sew in order to make a strong join. I can show my design in a variety of ways. I can cut accurately. I can make my own templates. 	 Explore Evaluate Pin tack Cut Sew Decorate Back stitch Blanket stitch Combine Cross-section Prototype

		1	1
	 Plan the sequence of work 		
	e.g. using a storyboard.		
	 Record ideas using 		
	annotated diagrams.		
	Combine modelling and		
	drawing to refine ideas		
	 Dovice stop by stop plans 		
	- Devise step by step plans		
	fellowed by semeene		
	else.		
	 Use exploded diagrams 		
	and cross-sectional		
	diagrams to communicate		
	ideas.		
	 Sketch and model 		
	alternative ideas.		
	 Decide which design idea 		
	to develop.		
	Use a computer to model		
	ideas.		
	 Make prototypes. 		
	 Develop one idea in 		
	denth		
	information to inform		
	decisions		
	 Cut accurately and cafely 		
	to a marked line		
	Colort from and use a		
	 Select from and use a 		
	wide range of materials.		
	 Use appropriate finishing 		
	techniques for the		
	project.		
	 Refine their product – 		
	review and		
	rework/improve.		
	 Give a report using 		
	correct technical		
	vocabulary.		
	 Consider and explain how 		
	the finished product		

				 could be improved related to design criteria. Discuss how well the finished product meets the design criteria of the user. Test on the user. 		
Summer	Inventors/ Inventions	Science History Computing	Children will design and make an 'invention' that uses gears/ cams/ electric motor or a combination of the above.	 Research and evaluate existing products (including book and web based research). Consider user and purpose. Identify the strengths and weaknesses of their design ideas. Develop a technical vocabulary appropriate to the project. Use mechanical systems such as cams, pulleys and gears. Use electrical systems such as motors List tools needed before starting the activity. Record ideas using annotated diagrams. Use models, kits and drawings to help formulate design ideas. Devise step by step plans which can be read / followed by someone else. Use exploded diagrams to communicate ideas. Sketch and model alternative ideas. Make prototypes. 	 I can investigate a range of products. I can make a basic structure. I know how to and can strengthen a frame. I can use a template. I know that a cam is a rotating, sliding part in a mechanism. I know that a lever can move a force using a pivot. I know that gears are toothed wheels that transmit force and motion. I can explain my design. 	 Investigate Product Template Cam Lever Pulley Motor Electrical circuit Prototype Force

	 Develop one idea in 	
	depth.	
	 Use researched 	
	information to inform	
	decisions.	
	 Produce detailed lists of 	
	components and tools.	
	 Select from and use a 	
	wide range of tools.	
	 Cut accurately and safely 	
	to a marked line.	
	 Use appropriate finishing 	
	techniques for the	
	project.	
	 Refine their product – 	
	review and	
	rework/improve.	
	 Give a report using 	
	correct technical	
	vocabulary.	
	 Understand how key 	
	people have influenced	
	design.	
	 Consider and explain how 	
	the finished product could	
	be improved related to	
	design criteria.	
	 Discuss how well the 	
	finished product meets	
	the design criteria of the	
	user. Test on the user.	