

	Desian Tec	hnology Curriculum Over	view				
Rationale	For all children to have: - understanding of the design process and how to refine quality of outcomes at each stage - a balance of skills in all the strands of DT: textiles, structures, mechanisms, electrical systems, computing - Cooking and nutrition build on knowledge and understanding in science, geography and history and deve3 lop cooking skills progressively						
Approach	 Start with a relevant and appropriate problem to solve Use a clear design process for all units is followed with clear progression in skills of: planning, exploring, communicating, making. modelling, reviewing, evaluating Links to wider curriculum are made where appropriate Three planned DT units per year 						
Nursery	Structures, Mec	Structures, Mechanisms and Textiles Cooking and Nutrition					
	Structures, Mechanisms and Textiles is covered through the interests of the children. Weekly enhanced provopportunity to explore these areas through holistic of Build with a variety of materials e.g. wooden blood Join materials Construct dens using A frames Weaving / lacing boards/ sticking/ cutting	Stripy Salad pots					
Reception	Textiles	Mechanisms	Computing				
Problem	Decorate a card for someone you care about Link: PSHE Mother's Day/ Birthday/ Easter/ Thank You/ Friendship cards Stitching on binka Understand that different media can be combined to create new effects	Make a puppet move Link: dinosaurs or characters from books e.g. Supertato Puppets with hinges Joining	Share a memory Link: Sharing learning they are proud of Children select appropriate applications How best to make a record of a special event in their lives, such as a trip to the zoo Use basic PowerPoint software or similar				
	Cooking and Nutrition						
	Cooking and nutrition is covered throughout the year through half termly themes taken from the interests of the children. Weekly enhanced provision is planned to ensure the children have the opportunity to explore cooking and nutrition through holistic and discrete teaching of the EYFS curriculum.						
Y1	Structures	Mechanisms Cooking and Nutrition					
Problem	Make the tallest beanstalk to support the giant's castle	Create a pop-up book for Nursery	Triple-Decker Sandwich				
	 Link; Jack and the Beanstalk Reinforcement: folding, tripod/triangles foundations and columns 	 Link: any text they are using e.g. Traction Man Children use lever and sliders 	 Link: Tiger who came to tea 'party' Interview people and tally preferences English: Write down how to make a sandwich Computing: Make a film about how to make the sandwich 				
Y2	Mechanisms	Computing	Textiles				
Problem	Create a go carts – "On Sudden Hill"	Create an interactive e-Book to compare schools	Do a puppet show for Reception : create a puppet				
	 Link: On Sudden Hill book Create Go-Carts with wheels and axels 	 Geography: What is life like in different school in Trust in London? School life here: create photos, videos and sounds that are embedded in e-book. School life contrasting school: links to websites, documents, film 	 Link - Alternative traditional tales Design and create their own puppet for purpose. Use puppets to create own puppet show Teachers can make into show for an audience / create a stage etc. 				
Y3	Mechanisms	Structures	Cooking and Nutrition				
Problem	How can you move heavy objects/water – Egyptians	Create a mini greenhouse	Pizza				
	 Link: History: Egyptians Moving - heavy weights - pulleys and levers Shaduf: A hand operated device for lifting water 	 Link- Science plants unit Strengthen and reinforce Use of specific joins/ diagonals Hinges 	 Link: Geography - Seasonality of food- Growing/plants - Science Trip to pizza restaurant included 				

Y4	Textiles	Computing	Electrical	
Problem	Recycling a garment	Designing and Coding a Prototype Toy	Create your own speaker Link: Sound topic in Science. Electrical system in a product Using switches or sensors to affect use. (Variable resistor to create volume control, infrared to create alarm, light sensor to create musical night light.	
	 Link: Geography - climate change and English - Shackleton's journey Re-use and repurpose an old garment using a given pattern or brief. Being given a pattern – create a bag for the journey Fraying/ using blanket stitch to stop fraying Using back stitch and turning inside out Pupils to add their own design element 	 Link: Computing – scratch coding to select, use and combine software and content to accomplish given goals; using input devices such as sensors. Design and code an interactive toy (input and output) using Scratch. Use a Crumble controller to make working models of parts of your toy, including lights, sensors and alarms. 		
Y5	Mechanisms	Structures	Cooking and Nutrition	
Problem	How do I show how the Earth revolves around the sun?	Building Bridges		
	 Link: Science- Sun, Earth and Moon Understanding of different types of cams and how they move (e.g. eccentric, round, snail cams). Create an Earth to move around the Sun 	 Link: Geography - /building a bridge between NI and Scotland/bridge across the Thames. Strengthening - buttresses, arches, use of triangles, strongest materials, how to make a specific material stronger by manipulating its form e.g. paper by folding and rolling. Considering different forces that act on a bridge (tension and compression) Construction - cutting materials making good connections/reinforcing 	Link: Select appropriate ingredients and use a wide range of techniques to combine them	
Y6	Textiles	Cooking and Nutrition	Electrical	
Problem	 Make Do and Mend Link: History- WW2 Creating a new garment from old ones referring to the WW2 slogan – Make Do and Mend. Creating own pattern and deign 	 Masterchef: Create a menu Link: Geography - Who are the British? Apply Cooking and Nutrition skills Design a healthy meal based on with all of the different cultures who migrated to Britain. 	Create an interactive game for the summer fair Link: Financial independence/ entrepreneur/ careers week Children apply all knowledge of electrical DT to design their own game with sound/ buzzer for the summer fair	