Orton V	Wistov	v Prim	ary So	chool	- Cun	riculur	n Plar	0		
Subject : Design Technolo										
							M.			
Vocabulary	What	Knowledge children will			Understandin nildren will un	-	Skills What children will be able to do			
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating	
Structure – something built or constructed (from latin 'structura', equivalent to struct and 'ura' = put together)	How to use a (chromebook co ntors throughou	arefully to	What is an inv of inventors th	ventor and can nroughout histor	l find examples y?	Name a famous inventor and their work, evaluating on its importance.			
Mechanism – an assembly of moving parts performing a complete functional motion (from Latin 'mechanismus' and Greek 'mechan' = machine)	the world - wh important to th	ventors who ha ny were their inv he human civilis e circuits using e	entions so sation?	successful? What other c	uit? What does omponents can link to any othe	n l use in a	Generate ideas for their own designs using inspiration from known engineers. Explain what a mechanics are and how they can be used in a product.			
Engineer – a person trained and skills in the design, contructions and use of engines or machines (Latin 'ingenia' = to design)	that employ a	number of cor resistors, transis	mponents	What is an algorithm and what does it do? How can I debug an algorithm?			Make a simple electrical circuit with LED's. Make an electrical circuit with a switch.			
Design- to prepare the preliminary sketch or plans for a structure (Middle English 'designen' and Latin 'designare' = to mark out)	-	s and write cod nodels or produ rms).		Which combination of cams, levers, electronics, pulleys and gears can I use in my design?			Tinker with electrical equipment and put it back together again. Explain which cam makes which type of			
, Criteria- a standard for judgement or to test something (Greek 'kriterion' = to separate)		ow to use cams, and mechanics			vent to make th	ne world a	motion. Design a moving object (on Sketch Up with labelling) with cams, lever with pulleys,			
Product- a thing produced by labour Prototype – the original or model which		mbinations of e nd mechanics i		suitable to the			gears and one electronic element (simple circuit) or computing element.			
something is based or formed (Greek - 'prototypos' = original)	Design with th	e user in mind, i product will offe		How many prototypes for my product will I need?			Select appropriate joining techniques/ resources.			
Algorithm – a set of rules for solving a problem ina number of steps (Latin - 'algorismus' = steps)	simply for profi	it). a prototype of		What do I like	e CAD to design and dislike abc ht I modify it?		Cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape).			

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Vocabulary	What	Knowledge children wil			Inderstandir ildren will ur		Skills What children will be able to do			
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating	
 Material- the substances of which a thing is made (Latin 'materialis' meaning belonging to matter) Electricity – the science dealing with electric charges and currents (Latin – 'electricus' = 'electrum' amber-coloured alloy of gold and silver used in ancient times Component – a part of a mechanical or electrical system (Latin – 'componere' = put together) Cam – a disk or cylinder having an irregular form such that its motion, usually rotary or reciprocating (Dutch - 'kamm' = round comb) Pulley – a wheel, with a grooved rim, that turns in a frame to change the direction of or transmit force (Greek – 'polidian' = little pivot) Gear – a part that has cut teeth of similer spacing to another that they mesh with teeth in another part to transmit or receive force and motion (Middle English – 'gere' = equipment) Linear – consisting of, or using lines (Latin 'linearis' = belonging to lines Rotary – turning or capable of turning on an axis like a wheel (Latin 'rotarius' = wheel) Innovative – to introduce something new or make changes to something established (Latin – 'innovatus' = renew, alter) 	Make product prototypes, ma and modificat Ensure produc using art skills v Use prototype: and computer to represent de Evaluate the c suggest impro- experience ar refinements.	s through stag aking continuc ions. ts have a high where appropr s, cross-section r aided design esigns. design of produ vements to the	es of al refinements quality finish, iate. nal diagrams s (Sketch Up) ucts so as to e user	Can I offer suc their products What is the use	ggestions to my ? er experience (-	Measure with nearest millin Apply approp techniques th perimeter of cut outs). Choose suita products. Evaluate pro- well and who	a ruler and ma	rk out to the nd shaping within the ch as slots or to repair g what they did nange next	



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💭 Orton Wistow Primary School – Curriculum Plan 🙀										
Subject : Design Technology Year : 6 Term : Spring										
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Vocabulary	What	KnowledgeUnderstarWhat children will knowWhat children wil				-	What chi	Skills t children will be able to do		
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating	
Aesthetic – Latin (aestheticus – perception) sense of beauty Appendage – a subordinate part attached to something Assemble – bring or gather in one place Design – prepare plans or a sketch Criteria/criterion – Greek (kriterion – a standard) rule for evaluating or testing something Evaluation – appraisal/appraising Fastening/fastener – something that	world and he people. How different different cor suitable mat Know why the important ar the final piece		tions inspired act under sing the most products. cess is on't just make	different des world. Observe diff features, inc effects. How to follow with needles safely, being	pare and cor igners from a erent materia luding visual o w instructions s, scissors and able to explo	round the Ils and their and tactile on working materials ain why.	Research and investigate different designers from around the world – explaining which ones inspire them. Cost a product, thinking about the consumer and profit. Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs).			
fastens such as a lock or clasp Prototype – a model, often full-size, for testing after design and draft stage Net – stage before mock-up, product before fastening or stitching Stitching – one complete movement of a threaded needle through a fabric or material. To sew, join or embellish with stitches (blanket, cross, running)	Remember how to tinker with different materials and design own product. Remember how to measure and mark out to the nearest millimetre. Select appropriate joining techniques/ resources (back-stitch for seam and running stitch for appendages)			Observe the importance for the aesthetics of their own products, being able to explain why this is important. Practise different sewing techniques and why certain ones are most suitable for their product. Understand why their product was suitable and why it wasn't, including			Try different stitching techniques and join textiles with most appropriate stitching. Cut materials accurately and safely by selecting appropriate tools. Select the most appropriate techniques to decorate textiles, being able to explain those choices.			



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Vocabulary	Knowledge			Understanding			Skills			
	What	children will	know	What children will understand			What children will be able to do			
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment	
etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating	
Stencil – a device for applying a	Understand	the need for a	a seam	the price an	d how much p	orofit could	Explain why their product achieves the			
pattern or design to a fabric or material Template – a pattern serving as a guide	allowance. Evaluate product as going along with a final evaluation against the design brief.			be made.			design brief and reflect how it can be improved next time.			



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Subject : Design Technology Year : 5 Term : Summer										
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Vocabulary	What	Knowledge children wil			Jnderstandi hildren will u		Skills What children will be able to c			
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating	
Fruit – any edible product of plant growth useful to humans or animals Assemble – Latin (assimulare) to	Children wil microorgan keep food s contaminat	nism is and h safe from be	ow can we	correct sto	d the import rage and he (using know nisms)	andling of	Find a healthy, home cooked recipe in a cookbook or using an internet search from a variety of different countries.			
bring together or gather	How to desi cooked me	eal from diffe	erent	grown, rea	d which foo red, caught		Identify ingredients that can be classed as locally sourced.			
Healthy – enjoying good health Ingredients – Latin (stem of		and baking	techniques.	processed. Understand that food must be			Group ingredients into grown, reared, caught and processed.			
ingrediens) something that enters as an element into a mixture Recipe – Latin (recipere) a set of	Suggest imp designs and appealing t	d what make	e them	prepared safely and hygienically and be able to explain the reasons why.			Use a variety of different cooking and backing utensils safely and responsibly.			
instructions for making or preparing a food dish	locally sour	ed. Assemb ced, healthy	le or cook	How to create and refine recipes, including healthy seasonal ingredients, methods, cooking times and temperatures.			Measure accurately to nearest gram.			
Slice – Old French (esclicer – to split up) a thin, flat piece cut from something	ingredients. How to cut, ingredients	, peel or gra	te nygienically.	Practise hc	w to use a l r safely and	knife, grater	Calculate ratios of ingredients to scale up or down from a recipe			



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Vocabulary	What	Knowledge children wil			Understanding What children will understand			Skills What children will be able to do		
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment	
etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating	
 Vegetable – Latin (vegetabillis – able to live and grow) any plant whose parts are used as food Caught – to catch, for example, fish Reared – to rear, for example, cattle and sheep Grown – food grown from the ground such as vegetables, etc Processed – foods made by humans in a factory Seasonal – dependent on the seasons of the year or a particular season 	measure or nearest gro Measure ad ratios of ing down from Begin to ev products ag	ccurately ar gredients to s	items to ad calculate scale up or ideas and n criteria	between h ingredients that way. Understand packaging appealing being able why. Testing how the sales of	the differer ealthy and u and what m how differer can be visu and unapper to tell anoth y packaging a product, i heir own pro	ent ally ealing, her person g can affect using it to	being able or dislike it. Critically re of packagi the environ Design pac	food dish or to explain w flect on diffe ng and their ment and c kaging so it to the consu	vhy they like erent types r impact on consumer. is visually	

