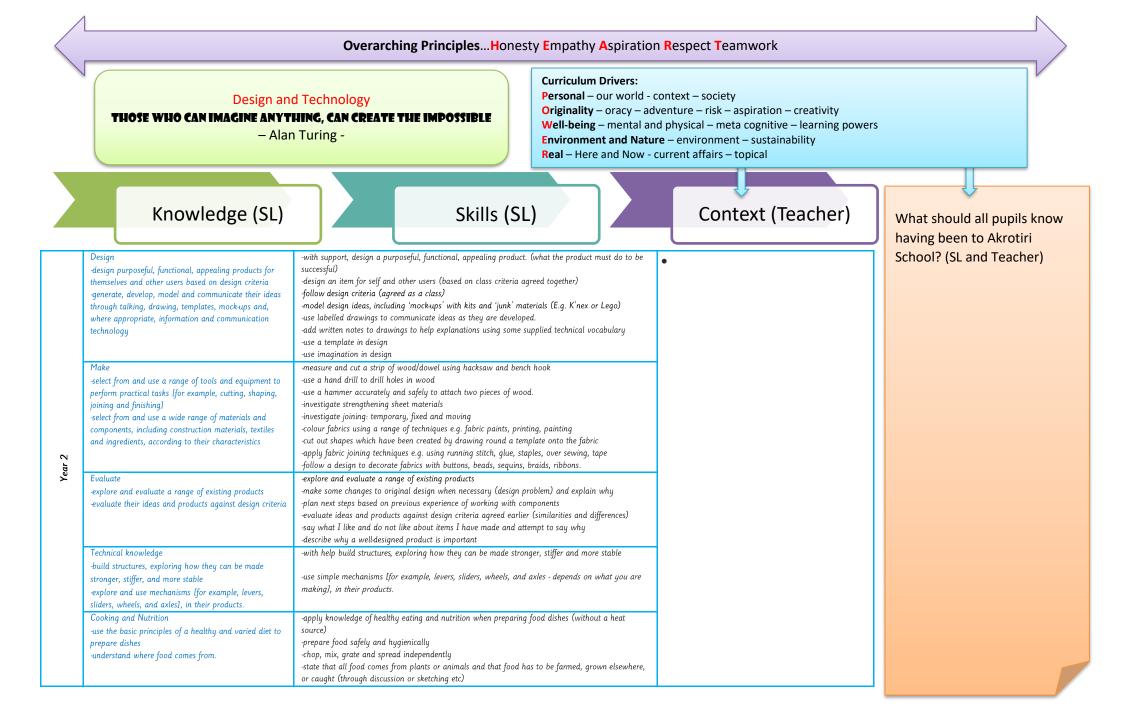
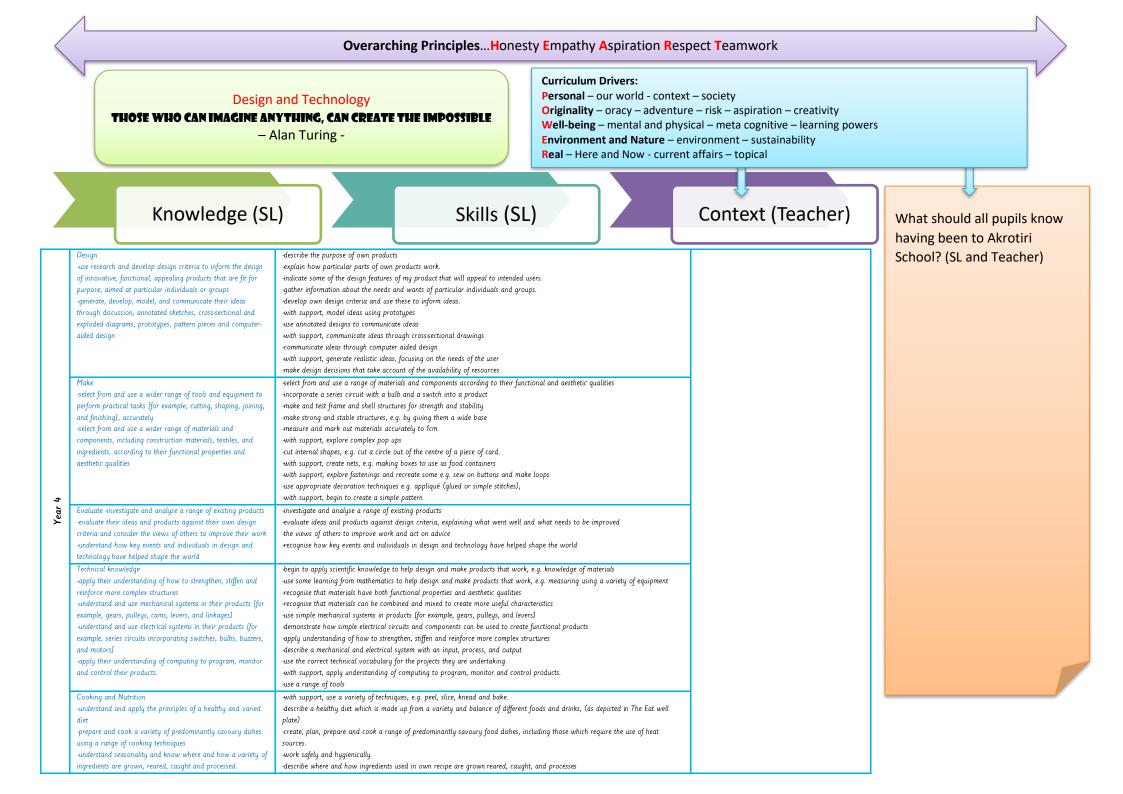
		Overarching PrinciplesHonesty Empathy Aspiration Respect Teamwork			
Design and Technology THOSE WHO CAN IMAGINE ANYTHING, CAN CREATE THE IMPOSSIBLE – Alan Turing - Curriculum Drivers: Personal – our world - context – society Originality – oracy – adventure – risk – aspiration – creativity Well-being – mental and physical – meta cognitive – learning powers Environment and Nature – environment – sustainability Real – Here and Now - current affairs – topical					
	Knowledge (SL)		Vhat should all pupils known aving been to Akrotiri		
themselv generate through s where ap technolo Make -select frr perform joining, select frr compone and ingre	om and use a range of tools and equipment to practical tasks [for example, cutting, shaping, and finishing] om and use a wide range of materials and ents, including construction materials, textiles redients, according to their characteristics e and evaluate a range of existing products e their ideas and products against design criteria	vitis support, model design ideas with kits and 'junk' materials (E.g. K'nex or Lego) -use simple labelled drawings to communicate ideas -add some sentences to drawings to communicate ideas and actions needed -use my imagination in design -use a range of tools safely -cut a strip of wood with support -use a hand drill to drill holes in wood with support -use a hanmer safely to attach an item -assemble, combine, and join different materials appropriately e.g. glue, tape, paper clips and paper fasteners -create hinges -make a sliding and moving mechanism -colour fabrics using crayons and paintcut straigs that by buttons, beads, sequins, braids, ribbons -use a ranning stitch to join two pieces of material -with support, explore and evaluate a range of existing products (design stage) -with support, explain what has been made, how it works and why certain choices made -with support, nevel and not liked about items made and attempt to say why.	chool? (SL and Teacher)		
-build str stronger, -explore sliders, w Cooking	Il knowledge ructures, exploring how they can be made , stiffer, and more stable and use mechanisms [for example, levers, wheels, and axles], in their products. and Nutrition basic principles of a healthy and varied diet to	-with help, build structures, exploring how they can be made stronger, stiffer, and more stable -with support, use some simple mechanisms: [for example, levers, sliders, wheels, and axles - depends on what you are making], in their products. -suggest different healthy foods when we plan and prepare food dishes. (without a heat source) -understand the importance/routine of washing hands before handling food -chop, mix, and grate fruit and vegetables.			
prepare		-measure and weigh food items using non-standard measures e.g. spoons, cups -say where some foods come from.			



	THOSE WHO CAN IMAGINE ANYT	d Technology HING, CAN CREATE THE IMPOSSIBLE Turing -	Curriculum Drivers: Personal – our world - context – society Originality – oracy – adventure – risk – aspiration – creativity Well-being – mental and physical – meta cognitive – learning powers Environment and Nature – environment – sustainability Real – Here and Now - current affairs – topical		
	Knowledge (SL)	Skills (Sl		Context (Teacher)	What should all pupils know having been to Akrotiri School? (SL and Teacher)
	Design use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups -generate, develop, model, and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Make -select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining, and finishing], accurately -select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities -with support, make levers and linkages, e.g. using lolly sti -with support, use linkages to make movement larger or -with support, join fabrics using running stitch, over sewing		of resources according to their functional and aesthetic s into design	•	
	Evaluate -investigate and analyse a range of existing products -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work -understand how key events and individuals in design and technology have helped shape the world	understand the need for patterns with support, investigate and analyse a range of existing products begin to evaluate ideas and products against design criteria, saying what consider the views of others to improve my work begin to understand how key events and individuals in design and techno			
	Technical knowledge -apply their understanding of how to strengthen, stiffen and reinforce more complex structures -understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers, and linkages] -understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers, and motors] -apply their understanding of computing to program, monitor and control their products.	begin to use learning from mathematics to help design and make product equipment recognise that materials have both functional properties and aesthetic quu recognise that materials can be combined and mixed to create more usefu begin to understand some mechanical systems and use them in own prod with support, apply understanding of how to strengthen, stiffen and reinf -with support, recognise that mechanical and electrical systems have an in recognise the correct technical vocabulary for the projects being undertak -with support, apply use of computing to program, monitor and control m -with support, use a range of tools independently	alities 1l characteristics lucts [for example: pulleys, levers, and linkages] force simple structures uput, process, and output ten		
	Cooking and Nutrition -understand and apply the principles of a healthy and varied diet -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, reared, caught and processed.	analyse the taste, texture, feel, smell, and appearance of a range of foods begin to use a variety of techniques, e.g. peel, slice, knead and bake. recognise that a healthy diet is made up from a variety and balance of d Eatwell plate with support, prepare and cook a range of predominantly savoury (Gree use of heat sources begin to demonstrate the importance of working safely and hygienically	ifferent foods and drinks, as depicted in The		



		Overarching PrinciplesHonesty Empathy Aspiration Respect Teamwork	
T	HOSE WHO CAN IMAGINE AN	Curriculum Drivers: Personal – our world - context – society Originality – oracy – adventure – risk – aspiration – creativity Well-being – mental and physical – meta cognitive – learning powers Environment and Nature – environment – sustainability Real – Here and Now - current affairs – topical	s
	Knowledge (SL	Skills (SL) Context (Teacher)	What should all pupils know having been to Akrotiri
of innovative, fi purpose, aimed -generate, devel through discuss	and develop design criteria to inform the design functional, appealing products that are fit for d at particular individuals or groups elop, model, and communicate their ideas sion, annotated sketches, cross-sectional and rams, prototypes, pattern pieces and computer-	through brain storming, develop a clear idea of the purpose of the product, planning how to use materials, equipment, and processes explain how most of the parts in own products work suggest alternative methods if the first attempts fail indicate the specific design features of own product that will appeal to intended users develop own design specification and use this to inform ideas. with support, communicate ideas through exploded diagrams model simple ideas using prototypes use annotated designs to communicate ideas with support, communicate ideas through crossectional drawings communicate ideas through nonsectional drawings communicate ideas through consuscetional drawings communicate ideas forus of the user generate realistic ideas, focusing on the needs of the user make some design decisions that take account of the availability of resources	School? (SL and Teacher)
perform practice and finishing], - select from an components, inc	nd use a wider range of materials and ncluding construction materials, textiles, and cording to their functional properties and	-with support, begin to show how to develop product, e.g. through a flow chart, instructions -select appropriate materials, tools, and techniques -begin to measure and mark out accurately to nearest 1cm and explain importance of accuracy -begin to use skills with different tools and equipment accurately -with some support, create an electrical circuit including a bulb, sound, and a switch -use my knowledge of stable structures when making product -use my knowledge of packages -create nets, e.g.: making food packages -use appropriate decoration techniques -use a propriate decoration techniques	
-evaluate their i criteria and con -understand how technology hav Technical know strengthen, stiff -understand and example, gears, -understand and example, series and motors]	stigate and analyse a range of existing products ideas and products against their own design nsider the views of others to improve their work we key events and individuals in design and ve helped shape the world wledge - apply their understanding of how to ffen and reinforce more complex structures id use mechanical systems in their products [for s; pulleys, cams, levers, and linkages] id use electrical systems in their products [for s circuits incorporating switches, bulbs, buzzers iderstanding of computing to program, monitor	-can create a simple pattern for own project use evaluate a product and its component ingredients and relate this to the original design specification if available evaluate own ideas and products in detail, explaining what went well and what needs further improvement consider the views of others to improve my work demonstrate understanding of how key events and individuals in design and technology have helped shape the world apply scientific knowledge to help design and make products that work, e.g. knowledge of materials use learning from mathematics to help design and make products that work, e.g. measuring using a variety of equipment consider materials for both functional properties and aesthetic qualities and begin to justify choice demonstrate that materials can be combined and mixed to create more useful characteristics use mechanical systems in products (for example, gears, pulleys, and levers] demonstrate that materials and components can be used to create functional products apply understanding of how to strengthen, stiffen and reinforce more complex structures recognise that mechanical and electrical systems have an input, process, and output	
and control the Cooking and N a healthy and u -prepare and co using a range o	eir products. Nutrition -understand and apply the principles of	use the correct technical vocabulary for the projects they are undertaking apply understanding of computing to program, monitor and control products. use a range of tools independently use a variety of techniques, e.g. peel, slice, knead and bake. describe a healthy diet made up from a variety and balance of different foods and drinks, (as depicted in The Eat well plate) I can create, plan, prepare and cook a range of predominantly savoury food dishes, including those which require the use of heat sources. work safely and hygienically Describe where and how a variety of ingredients are grown reared, caught, and processed.	

