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YEAR 1 Core	Design Brief - instructions for what a product should	-	Tools and Materials Safety - stopping danger or harm	Skills Cutting - using sharp tools to make materials into smaller	Technical Knowledge Function - how a product or part moves or works
Concepts	do/be Preferences - likes and dislikes Criteria - rules a designer or product must follow	Topic specific objectives	Hygiene - keeping products, people and materials clean Purpose - the reason products are made or materials are used	parts Fixing - gluing, sewing and attaching Holding - using tools and materials with your hands Preparing - getting materials, tools & areas ready for work Finishing - completing a product by adding the last pieces	Function - now a product of part moves of works
	Year 1: Can make a choice between designs based upon their own preferences. Can create a design based upon given criteria, with support. Begins to use technology as a whole group to support the design process Explain how their design choices have been made.	Food Cycle A - Kandinsky Cycle B – Kenyan Food	Year 1 Can use a small sharp knife to chop. Can use a spoon to mix wet ingredients. Can use hands to mix dry ingredients. GD Can select from a range of given tools and explain their choice with support	Year 1 Can chop soft foods using the bridge hold. Can peel thick skinned foods by hand when peel has been started by an adult/knife cut. GD Can mix ingredients without excessive spillage.	Year 1 Name some foods which are healthy and unhealthy. Know foods are grown and harvested. Knows basic hygiene rules: washing hands before preparing food. Knows how to use a small sharp knife safely with adult support. Can choose appropriate tools based upon the ingredients from a given set. Can make choices based upon their preferences. GD Knows and uses the correct technical vocabulary when discussing.
		Textiles Cycle A –	Year 1: To cut out a pattern in fabric with support To use pins and needles safely with support	Year 1: To use a range of cutting tools to cut their pattern accurately	Year 1: Chn know a stuffed toy must be sewn together and stuffed Chn know a puppet must be big enough to fit a hand inside
	Evaluating	Superhero puppet	To attach two pieces of fabric together using a needle and	To thread cotton through the eye of a needle and knot the end	Begin to know a paper pattern is needed to create a stuffed
	Evaluate - give opinions about products, materials or ingredients Modifications - changes to a product Research - investigating to do with a product Year 1: Can give personal opinions about existing products. Can say if a product meets given design criteria. Can say what went well based upon their own	Cycle B – Stuffed clown	thread To attach embellishments using glue GD - To select materials and tools to meet a design brief from a given selection	with support To fix 2 pieces of material together using pins with support GD - To design a template to fit a given purpose independently	toy/puppet To know that thread needs a knot at one end and to be threaded through the eye of the needle at the other with support GD - To know to leave one side unsewn to allow for stuffing
	opinions with support. Begins to use technology to record preferences. GD - Can suggest improvements, with support.				
		Mechanisms and Materials Cycle A - Trains Cycle B - Moving toys	Year 1: Can choose from 2/3 materials for a given purpose. Can make holes for dowel/axles safely, with support. Can dismantle a cardboard box. Knows materials that can be secured with PVA glue. Can strengthen a cardboard by layering, with support. GD: Completes a build/design successfully, with little support	Year 1 Can cut safely in a straight line. Can attach materials to the dowel. Can handle materials without damaging them with support. Know how to apply glue to secure separate materials. Can create a system of simple axles following a given design. Can add a pulley and winder to an axle to create a simple mechanism with support. Can decorate their final product based on a model GD: Makes a functioning axle that spins freely because it is mounted in an accurate way.	Year 1 Knows axles need to be mounted straight. Know that some materials are not suitable for construction To know a range of basic adhesives (PVA glue, Cellotape, Masking tape). Can identify how a simple mechanism works. GD: Knows and uses the correct technical vocabulary when discussing their work.

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YEAR 2	Design		Tools and Materials	Skills	Technical Knowledge
Core Concepts	Brief - instructions for what a product should do/be Preferences - likes and dislikes Criteria - rules a designer or product must follow	Topic specific objectives	Safety - stopping danger or harm Hygiene - keeping products, people and materials clean Purpose - the reason products are made or materials are used	Cutting - using sharp tools to make materials into smaller parts Fixing - gluing, sewing and attaching Holding - using tools and materials with your hands Preparing - getting materials, tools & areas ready for work Finishing - completing a product by adding the last pieces	Function - how a product or part moves or works
	Year 2: Can make a choice between a range of designs based upon their own preferences. Can create a design based upon given criteria. Can use technology as a whole group to support the design process. Make alternative suggestions within their design brief.	Food Cycle A - Fruit salad Cycle B – Kenyan Food	Year 2 Can use a small sharp knife safely to chop fruits/vegetables into similar sizes Can choose whether to use a spoon or their hands to mix wet and dry ingredients. GD Can select from a range of tools and explain their choice.	Year 2 Can chop soft foods using the fork secure hold. Can peel thick skinned foods by hand. Can mix ingredients using appropriate tools. GD Can add and mix ingredients without spillage.	Year 2 Know foods which are healthy and unhealthy. Know foods are grown, harvested and manufactured. Knows basic hygiene rules: clean hands and equipment, not touching face Knows how to use a sharp knife safely. Can choose appropriate tools based upon the ingredients. Can make choices based upon their evaluations and preferences. GD Knows and uses the correct technical vocabulary when discussing and explaining.
		Textiles Cycle A – Superhero	Year 2: To cut out a pattern in fabric accurately To use pins and needles safely	Year 2: To select from and use a range of cutting tools to cut their pattern accurately To thread cotton through the eye of a needle and knot the	Year 2: Chn know a stuffed toy must be sewn together, decorated and stuffed
	Evaluating Evaluate - give opinions about products, materials or ingredients Modifications - changes to a product Research - investigating to do with a product	nunnet	To attach two pieces of fabric together using running stitch To attach embellishments using glue, stitches, staples GD - To select materials and tools to meet a design brief based on ability	end To fix 2 pieces of material together using pins GD - Completes stitching mostly without adult support.	Chn know a puppet must be big enough to fit a hand inside, sewn and decorated To know a paper pattern is needed to create a stuffed toy/puppet To know a paper pattern must be pinned before cutting
	Year 2: Can give personal opinions about existing products with explanation. Can say if a product meets design criteria. Can say what went well based upon their own opinions. Can use technology to record preferences. GD - Can suggest possible improvements.				round fabric To know that thread needs a knot at one end and to be threaded through the eye of the needle at the other To know to leave one side unsewn to allow for stuffing GD - To know to not overstuff so that a stuffed toy can be closed neatly
		Mechanisms and Materials Cycle A - Trains Cycle B – Moving toys	Year 2 Can choose from given materials for a given purpose. Can safely and accurately make holes for dowels/axles. Knows how to dismantle a cardboard box without tearing it. Can explain why some materials can't be secured with PVA glue. Knows how to strengthen cardboard by layering. GD: Completes a build/design without damaging or having to remake parts due to error or inaccuracy	Year 2 Can cut safely in straight and curved lines. Can thread and attach materials to the dowel. Can handle materials without damaging them. Know how to apply hot glue to secure separate materials with support. Can create a system of simple axles. Can add a pulley and winder to an axle to create a simple mechanism. Can decorate their mechanism based on a theme GD: Makes a pair of functioning axles that spin freely because they are mounted in an accurate way.	Year 2 Knows axles need to be mounted straight to function. Know that some materials need to be strengthened. To know which basic adhesives (PVA glue, Cellotape, Masking tape) are best for a purpose. Can explain how a simple mechanism works. GD: Knows and uses the correct technical vocabulary when discussing and explaining mechanisms.

YEAR 3	Design		Tools and Materials	Skills	Technical Knowledge
Core	Brief - instructions for what a product should	1	Safety - stopping danger or harm	Cutting - using sharp tools to make materials into smaller	Function - how a product or part moves or works
Concepts	do/be	Topic specific	Hygiene - keeping products, people and materials clean	parts	· · ·
	Preferences - likes and dislikes	objectives	Purpose - the reason products are made or materials are	Fixing - gluing, sewing and attaching	
	Criteria - rules a designer or product must follow	Objectives	used	Holding - using tools and materials with your hands	
				Preparing - getting materials, tools & areas ready for work	
				Finishing - completing a product by adding the last pieces	
	Y3:	Food	Year 3:	Year 3:	Year 3:
	Can create design criteria based on a given brief,		Can weigh and measure ingredients to multiples of 50	Can grate appropriate foods items with support.	Beginning to know how to use a hob in the best way to heat
	with support or in a group.	Cycle A -	Can choose from a range of utensils to prepare food items	Can chop a variety of foods using the Hammer knife grip.	food.
	Can use given links/information to research to	Cooking with	(sharp knives included).	Can peel thin skinned foods using a Y-peeler.	Know some ingredients are better suited to a task or
	find existing products that meet design criteria. Can make a choice about their own designs based	chocolate	Beginning to choose and use an appropriate tool to mix hot or cold foods.	Beginning to mix hot and cold foods using appropriate tools.	purpose.
	upon a range of preferences (own and others).	Cycle B – Anglo-	To know how to demonstrate hygienic food preparation	Begin to prepare work surfaces for food preparation	To know some ingredients in the past would not available
	Can use technology in a small group to support	Saxon stews	GD - Knows that some ingredients must be kept cool and	Can use a hob to heat food items in a saucepan.	and why.
	the design process, with adult direction.	Suxon stews	others at room temperature to stay fresh	GD - Can use heat carefully so as not to burn/spoil	GD Can successfully select an ingredient based on knowledge of how to prepare it from a given selection.
	Know key individuals in design and technology		Canada at 100 m portante to out, 110 m	ingredients whilst cooking with support.	knowledge of now to prepare it from a given selection.
	that have helped shape the world.			mg-caretin arms are any arms approximation	
	Knows and is beginning to follow the stages of	Textiles	Year 3:	Year 3:	Year 3:
	the design process independently.		Beginning to thread a needle safely and independently	Can design a template to fit a given purpose e.g. a piece of	Begin to know the importance of purses for Vikings
		Cycle A -	Can start stitches, beginning to end a stitch by tying off with	clothing, using a template	To know a paper pattern must include a seam allowance
	Evaluating	Clothing a	a secure knot	Can strengthen existing fabrics	To know a hem is used to prevent material from fraying
	Evaluate - give opinions about products, materials	character (Roald	Can use running stitch and is beginning to use backstitch	Can securely join two pieces of fabric together using	To begin to know a fastening has two parts
	or ingredients	Dahl)	GD - Can use backstitch accurately	running stitch	To know how to use a given design brief to develop the
	Modifications - changes to a product	Cycle B – Viking	·	Understands the need for patterns	form and function of a textiles product with support
	Research - investigating to do with a product	Purse		Can pin and stitch a hem line with support	GD - To know the difference between a purse and a belt
	Y3:	1		Can attach fastenings and embellishments (e.g. drawstrings,	purse
	Can give personal opinions about existing			toggles) with support	puise
	products based on a range of preferences (own			1 55 / 11	
	and others).			GD - Can attach fastenings independently (e.g. toggles and	
	Can say what went well based upon opinions			loops, buttons with holes)	
	(own and others).	Machaniana and	Voor 2.	Voor 2.	Voor 2.
	Can suggest potential improvements.	Mechanisms and Materials	<u>Year 3:</u>	Year 3:	<u>Year 3:</u>
	Can use technology to explain preferences (own	iviateriais	Can use cardboard to make axle mounts, with support.	Can measure lengths of materials accurately and reliably,	Knows axles need to be straight and secure to work well.
	and others).	Cycle A -	Know how to use a razor saw to cut lengths of wood, with	with support. Can cut lengths of materials accurately and safely, with	To know where to use a brace support to strengthen a
	Can suggest relevant and realistic improvements.	Revolting lantern	support. Know how to use hot glue to secure separate materials,	support.	frame or structure. To know how basic pulley/gear ratios work (2:1/1:2 and
		(lighthouses)	with support.	Can use a hot glue gun safely, with support.	3:1/3:1 and 1:2:3).
		(6	Can fix some components to dowel using hot glue.	Can create simple circuits as part of design. Can create a	Can identify the characteristics of materials that suit
		Cycle B –Roman	Can join wooden dowels to create a strong frame, with	system of gears/pulleys using axles and a ratio, with	different design criteria.
		siege towers	support.	support.	GD: Can show technical knowledge during the design
			Can select from some materials ones that best match	Know how to choose finishing techniques to improve the	phase.
			design criteria.	appearance of their products	
			GD: Can suggest improvements to chosen materials.	GD: Can suggest ways to solve problems that arise during	
				the building phase.	

YEAR 4	Docian	<u> </u>	Tools and Materials	Skills	Technical Knowledge
Core	Design Brief - instructions for what a product should		Safety - stopping danger or harm	Cutting - using sharp tools to make materials into smaller	Function - how a product or part moves or works
Concepts	do/be		Hygiene - keeping products, people and materials clean	parts	Tancalor flow a product of pare moves of works
	Preferences - likes and dislikes	Topic specific	Purpose - the reason products are made or materials are	Fixing - gluing, sewing and attaching	
	Criteria - rules a designer or product must follow	objectives	used	Holding - using tools and materials with your hands	
				Preparing - getting materials, tools & areas ready for work	
				Finishing - completing a product by adding the last pieces	
	Y4:	Food	Year 4	Year 4	Year 4
	Can create design criteria based on a given brief.		Can use weigh and measure ingredients with some accuracy	Can grate appropriate foods items.	To know how to use a hob in the best way to heat food.
	Can research to find existing products that meet	Cycle A -	(+/- 10%)	Can chop a variety of foods using the claw hold.	Apply knowledge of ingredients to the design and cooking
	design criteria.	Cooking with	Can use a range of utensils to prepare food items (sharp	Can peel thin skinned foods using a Y por swivel peeler.	process.
	Knows how to make decisions about their own	chocolate	knives included). Can use an appropriate tool to mix hot or cold foods.	Can mix hot and cold foods using appropriate tools. Can use a hob to heat food items.	To know relevant information regarding ingredients in
	designs based upon a range of preferences (own and others). Can use technology in a small group	Cycle B – Anglo-	Know safe practices in the kitchen and can identify hazards	Prepare work surfaces for food preparation	context (geographically or historically). Can successfully select an ingredient based on knowledge
	to support the design process.	Saxon stews	GD - Can handle ingredients without damaging or spoiling.	Can use heat carefully so as not to burn/spoil ingredients	of how to prepare it.
	Know key individuals in design and technology	Jakon stews	can name ingredients without damaging or spoining.	whilst cooking.	or now to prepare it.
	that have helped shape the world.				
	Know and follow the stages of the design process	Textiles	Year 4:	Year 4:	Year 4:
	independently.		Can thread a needle independently	Can design a template to fit a given purpose e.g. a piece of	To know the importance of purses for Vikings
		Cycle A -	Can start and end stitches, tying off with a secure knot	clothing independently	To know a paper pattern must include a seam allowance
	Evaluating	Clothing a	Can use running stitch and backstitch.	Can strengthen, stiffen and reinforce existing fabrics	and mark this on a pattern
	Evaluate - give opinions about products, materials	character (Roald	GD - Can use overstitch	Can securely join two pieces of fabric together using	To know a hem is used to prevent material from fraying and
	or ingredients	Dahl)	db - can use overstiten	running and backstitch	why its size is important
	Modifications - changes to a product			_	· · · · · ·
	Research - investigating to do with a product	Cycle B – Viking Purse		Understands the need for patterns and seam allowances. Can pin and stitch a hem line	To know a fastening has two parts To know how to use a given design brief to develop the
	Y4:	Turse		Can attach fastenings and embellishments (e.g. drawstrings,	form and function of a textiles product.
	Can give personal opinions about existing			toggles)	GD - To know the difference structurally between a purse
	products based on a range of preferences (own			GD - Can attach belt fastenings/loops	and a belt purse
	and others).			db - can attach beit lastenings/100ps	and a bent purse
	Can say what went well based upon opinions by	Mechanisms and	Year 4:	Year 4:	Year 4:
	providing evidence (own and others).	Materials	Can use cardboard to make axle mounts.	Can measure lengths of materials accurately and reliably.	Can explain the design qualities of axles that work well.
	Can suggest potential improvements.	Widterials	Know how to use a razor saw to cut lengths of wood.	Can cut lengths of materials accurately and safely.	Can explain how to use a brace support to strengthen a
	Can use technology to explain preferences (own	Cycle A -	Know how to use hot glue to secure separate materials.	Can use a hot glue gun safely and accurately, with support.	frame or structure.
	and others).	Revolting lantern	Can fix a range of components to dowel using hot glue.	Can create simple circuits and suggest ways to incorporate	Can explain how basic pulley/gear ratios work (2:1/1:2 and
	Can suggest and explain relevant and realistic	(lighthouses)	Can join wooden dowels to create a strong frame.	them into a design.	3:1/3:1 and 1:2:3).
	improvements.		Can select from a range of materials ones that best match	Can create a system of gears/pulleys using axles and a ratio.	Knows what materials have characteristics that suit
		Cycle B –Roman	design criteria.	Know how to choose finishing techniques to improve the	different design criteria.
		siege towers	GD: Can explain how to apply suggested improvements to	appearance of their products based on real life example	GD: Can show technical knowledge during the design and
			chosen materials.	GD: Can find a range of solutions that solve problems that	building phases to improve the final product.
				arise during the building phase.	

YEAR 5	Design		Tools and Materials	Skills	Technical Knowledge
Core Concepts	Brief - instructions for what a product should do/be Preferences - likes and dislikes Criteria - rules a designer or product must follow	Topic specific objectives	Safety - stopping danger or harm Hygiene - keeping products, people and materials clean Purpose - the reason products are made or materials are used	Cutting - using sharp tools to make materials into smaller parts Fixing - gluing, sewing and attaching Holding - using tools and materials with your hands Preparing - getting materials, tools & areas ready for work Finishing - completing a product by adding the last pieces	Function - how a product or part moves or works
	Y5: Can create a design brief and criteria from a given problem or need. Can consider how parts of a design will be constructed during the design phase. Can make a choice about various designs based upon a range of preferences and other aspects (cost, taste, appearance etc.) Can use technology to support the design process. Can use CAD programs to develop design ideas. Know how key events and individuals in design and technology have helped shape the world. Can suggest additional functionality when	Food Cycle A - Rationing ingredients Cycle B – Prison menus	Year 5 Can use some different of cooking techniques, such as frying and boiling. Can prepare a range of raw ingredients by cutting, slicing, peeling and grating whilst following a given recipe. Can measure weight and capacity of ingredients accurately using scales and measuring jugs/spoons to the nearest 10g/ml Know how to be both hygienic and safe in the kitchen GD – Knows why a particular preparation method is the suitable for a particular recipe	Year 5 Can prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source with the steps broken down Beginning to apply knowledge of food groups when planning and preparing dishes. Can make sensible suggestions about how to refine recipes by adding or substituting ingredients. Can follow a recipe with peer or adult support. Can alter methods, cooking times and/or temperatures with guidance from an adult. GD - Can calculate ratios of ingredients to scale up or	Year 5 Understands seasonality and how this may affect the food availability. Plan recipes according to available ingredients. Understands that foods have different nutritional values, and that these are needed for a healthy balanced diet. Know that some ingredients have limited supplies due to historical or geographical reasons GD - Can explain and give examples of food that is grown and caught in the UK or elsewhere.
	developing design criteria. Textiles Cycle A - Clothing for mountain	Cycle A –	Year 5: Can thread a needle independently and tie a secure knot Can use different stitches (running stitch, back stitch) Can select materials most suited to their intended purpose	down from a recipe in multiples 10. Year 5: Can cut material accurately. Can measure, make a seam allowance, tape, pin, cut, shape and join fabric with precision to make a product	Year 5: Can explain the process of natural dyeing (Hapa-Zome) Can identify the different stages involved in creation (blocks)
	Evaluate - give opinions about products, materials or ingredients Modifications - changes to a product Research - investigating to do with a product	climates Cycle B — Patchwork quilt (Hapa-Zome)	from a given selection Can use hammers safely to dye materials using Hapa-Zome GD - Can construct a garment using more than one type of material and can explain the purpose of this (e.g. fleece	with increasing independence. Can select stitch from a given list depending on the product's purpose. GD - Can join textiles using a greater variety of stitches, such as backstitch, blanket stitch.	Can manage the making process to overcome problems and mistakes with support. To know how to develop the form and function of a textiles product with support.
	Can give critical opinions (+ -) about existing products based on a range of preferences (own and others) and perspectives. Can say what went well based upon a broad range of aspects, with support. Can suggest improvements and methods of implementation. Can use a given technology to research preferences/designs/features in detail. Can use their own design briefs and criteria to		lining for warmth)		GD - Can explain the purpose of suitable embellishments with support (e.g: taped seam to enhance waterproofing).
		Materials Cycle A - Ancient Greek Cranes Cycle B – Electric	Year 5 Can select from two types of adhesive to suit a purpose. Know how to use a razor saw to cut accurately. Can combine materials to increase durability of designs (paper and wood). Can tie some knots chosen for a specific purpose. Can suggest a range of materials that best match design criteria. GD: Is able to use a razor saw cut at 45° angles	Year 5 Can measure lengths of materials and cut accurately (+/- 10% using an appropriately chosen tool from a selection Can use a range of measuring tools more accurately. Can use shaping tools to change the shape of wooden materials following a specific build guide. Can use a hot glue gun to fix materials safely Know how to carry out finishing techniques to enhance the appearance and function of their product GD: Can identify and make suggestions to solve problems with a design that arise during the building phase.	Year 5 Can attach and adapt mounts to ensure a working axle design following a specific build guide. To understand combined ratio systems and begin to implement in their work. Can create a system of gears and pulleys Knows output force can be higher than input force in a mechanism. Makes suggestions about how to add strength and durability by combining materials. GD: Can use knowledge to design changes and modifications that improve a design.

YEAR 6	Design		Tools and Materials	Skills	Technical Knowledge
Core	Brief - instructions for what a product should	-	Safety - stopping danger or harm	Cutting - using sharp tools to make materials into smaller	Function - how a product or part moves or works
Concepts	do/be Preferences - likes and dislikes Criteria - rules a designer or product must follow	Topic specific objectives	Hygiene - keeping products, people and materials clean Purpose - the reason products are made or materials are used	parts Fixing - gluing, sewing and attaching Holding - using tools and materials with your hands Preparing - getting materials, tools & areas ready for work Finishing - completing a product by adding the last pieces	
	Y6: Can create a detailed design brief and criteria from a given problem or need, incorporating own suggestions. Can consider how a design will be constructed during the design phase. Knows how to make decisions about various designs based upon a range of preferences and other aspects (cost, taste, appearance etc.) Can use technology independently to support the design process. Can use CAD programs to develop accurate representations of designs.	Cycle A - Rationing ingredients Cycle B – Prison menus	Year 6 Can use a range of cooking techniques, such as griddling, grilling, frying and boiling. Can prepare a range of raw ingredients by cutting, slicing, peeling and grating. Can measure weight and capacity of ingredients accurately using scales and measuring jugs/spoons. Apply knowledge of how to be safe and hygienic in the kitchen GD - Knows why a particular preparation method and ingredient is suitable for a particular recipe	Year 6 Can prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source. Can apply knowledge of food groups when planning and preparing dishes. Can adapt and refine recipes by adding or substituting ingredients. Can independently follow a recipe. Can alter methods, cooking times and/or temperatures. Can calculate ratios of ingredients to scale up or down from a recipe.	Year 6 Can explain seasonality and how this may affect the food availability. Plan recipes according to seasonality. Can explain that foods contain different substances, such as protein, and that these are needed for health. Explain the effect of ingredient limitations on a recipe (historical or geographical). Can explain and give examples of food that is grown and caught in the UK, Europe and the wider world.
	Can identify specific events or individuals in design and technology that have helped shape the world. Can consider the effects of science and technology upon similar designs throughout history. Evaluating Evaluate - give opinions about products, materials or ingredients Modifications - changes to a product Research - investigating to do with a product Y6:	Textiles Cycle A — Clothing for mountain climates Cycle B — Patchwork quilt (Hapa-Zome)	Year 6: Can begin a line of stitches independently (thread, knot, cast on) Can use a range of stitches (running stitch, back stitch, cross-stitch, overstitch) Can select materials most suited to their intended purpose Can use hammers safely to dye materials in a specific way using Hapa-Zome GD - Can construct a garment using a pattern of their own design featuring multiple pieces (e.g. front and back pieces, sleeves, collar)	Year 6: Can cut material with precision and accuracy. Can measure, make a seam allowance, tape, pin, cut, shape and join fabric with precision to make a more complex product. Can select stitch used depending on the product's purpose. GD - Can join textiles using a greater variety of stitches, such as backstitch, whip stitch, blanket stitch and select these for their purpose	Year 6: Can explain the process of natural dyeing using technical vocabulary (Hapa-Zome) Can identify the different stages involved in quilt design and creation Can manage the making process to overcome problems and mistakes. To know how to develop the form and function of a textiles product. GD - Can explain the purpose of suitable embellishments independently (e.g: taped seam to enhance waterproofing).
	Can give a range of critical opinions (+ - neutral) about existing products based on a range of preferences (own and others) and perspectives. Can say what went well based upon a broad range of aspects. Can suggest realistic and relevant improvements and methods of implementation. Can select from a range of technology to research preferences/designs/features in detail. Can use their own design briefs and criteria to assess the success of their finished product. Can develop a design using modifications and improvements to improve its overall function.	Cycle A - Ancient Greek Cranes	Year 6 Can select from two types of adhesive to suit a purpose. Know how to use a razor saw to cut accurately. Can combine materials to increase durability of designs (paper and wood). Can tie some knots chosen for a specific purpose. Can suggest a range of materials that best match design criteria. GD: Is able to use a razor saw cut at 45° angles	Year 6 Can measure lengths of materials and cut accurately using an appropriately chosen tool. Can utilise a range of measuring tools to aid accuracy. Can use shaping tools to change the shape of wooden materials. Can use a hot glue gun to fix materials safely and accurately. Know how to apply finishing techniques to enhance the appearance and function of their product GD: Can solve problems with a design that arise during the building phase.	Year 6 Can attach and adapt mounts to ensure a working axle design. To know how combined ratio systems work. Can create a system of gears/pulleys to achieve a specific goal. Knows what mechanical advantage means. Knows how to add strength and durability by combining materials. GD: Can use knowledge to adapt and modify to improve designs as they build.