Aims

Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world

- Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a range of users

- Critique, evaluate and test their ideas and products and the work of others

- Understand and apply the principles of nutrition and learn how to cook.

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DT - AUTUMN TERM					
	Year 3	Year 4	Year 5	Year 6	
	Cooking and nutrition	Cooking and nutrition	Cooking and nutrition	Cooking and nutrition	
Healthy Salad		Vegetable curry	Bread- focaccia	Two course meal on a budget.	
	(Taught in Summer)				
Concept	Nutrition, healthy eating, cultural, Health and safety	Nutrition, healthy eating, survival, Health and safety	Nutrition, healthy eating, cultural, Health and safety	Nutrition, healthy eating, seasonality, health and safety	
Prior knowledge	<ul> <li>KS1 National Curriculum</li> <li>Use the basic principles of a healthy and varied diet to prepare dishes</li> <li>Understand where food comes from.</li> <li>Know some ways to prepare ingredients safely and hygienically.</li> <li>Have some basic knowledge and understanding about healthy eating and <i>The Eatwell plate</i>.</li> <li>Have used some equipment and utensils and prepared and combined ingredients to make a product.</li> <li>EYFS – Structures – Minibeast Homes Year 1 – Freestanding Structures – Park Equipment</li> </ul>	<ul> <li>Know some ways to prepare ingredients safely and hygienically.</li> <li>Have some basic knowledge and understanding about healthy eating and <i>The Eatwell plate</i>.</li> <li>Have used some equipment and utensils and prepared and combined ingredients to make a product.</li> <li>EYFS – Food – Gingerbread men, Sandwiches and Fruit Kebabs</li> <li>Year 1 – Food – Pizza, Stir Fry, Cheese Straws and Easter Buns</li> <li>Year 2 – Cakes, Bread and Mexican Chips and dip</li> </ul>	<ul> <li>Have knowledge and understanding about food hygiene, nutrition, healthy eating and a varied diet.</li> <li>Be able to use appropriate equipment and utensils, and apply a range of techniques for measuring out, preparing and combining ingredients.</li> <li>EYFS – Food – Gingerbread men, Sandwiches and Fruit Kebabs Year 1 – Food – Pizza, Stir Fry, Cheese Straws and Easter Buns Year 2 – Cakes, Bread and Mexican Chips and dip</li> </ul>	<ul> <li>Have knowledge and understanding about food hygiene, nutrition, healthy eating and a varied diet.</li> <li>Be able to use appropriate equipment and utensils, and apply a range of techniques for measuring out, preparing and combining ingredients.</li> <li>EYFS – Food – Gingerbread men, Sandwiches and Fruit Kebabs</li> <li>Year 1 – Food – Pizza, Stir Fry, Cheese Straws and Easter Buns</li> <li>Year 2 – Cakes, Bread and Mexican Chips and dip</li> </ul>	

To start to understand that a healthy diet is made up from a variety and balance of different food and drink, as depicted in 'The Eat well plate'	I can identify and classify ingredients in composite dishes according to the Eatwell Guide food groups.	I know that there are a vast range of ingredients used around the world and I can name some of these such as wheat, olives, tomatoes, garlic, herbs.	That food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world.
<ul> <li>Interent rood and drink, as depicted in 'The Eat well plate'</li> <li>Know how to use appropriate equipment and utensils to prepare and combine food.</li> <li>Know about a range of fresh and processed ingredients appropriate for their product.</li> <li>Understand sensory vocabulary and start to use it appropriately.</li> <li>I can explain who Caesar Cardini is and the influences of his work within the food industry.</li> <li>I can eat sociable with others and behave appropriately.</li> </ul>	Guide food groups. I understand that the different proportions of the Eatwell Guide reflect the proportions of foods which should be eaten from each group. I know that different amounts of energy are needed by the body for different activities. I know that different people need different amounts of energy. Know and use sensory vocabulary appropriately. I can explain who Vikas Khanna is and the influences of his work within the food industry. I can eat sociable with others and behave appropriately.	<ul> <li>can name some of these such as wheat, olives, tomatoes, garlic, herbs.</li> <li>That recipes can be adapted to change the appearance, taste, texture and aroma.</li> <li>Know that energy provided by food and drink is measured in kilojoules (metric) and kilocalories (imperial).</li> <li>Know how to use utensils and equipment including heat sources to prepare and cook food.</li> <li>Know that different types of food provide different amounts of energy.</li> <li>Know and use relevant technical and sensory vocabulary.</li> <li>Explain the process of making bread from grain to bread.</li> <li>I can explain who The Warburtons are and the influences of their work within the food industry.</li> <li>I can eat sociable with others and behave appropriately.</li> </ul>	<ul> <li>I can consider the benefits and disadvantages of how certain food is processed.</li> <li>That seasons and weather affects the food available- seasonality.</li> <li>That recipes can be adapted to change the appearance, taste, texture and aroma.</li> <li>Know that the ingredient choices affects the budget of the meal.</li> <li>Know how to use utensils and equipment including heat sources to prepare and cook food.</li> <li>Know and use a wide range of relevant technical vocabulary.</li> <li>I can explain who John Torode is and the influences of his work/food industry.</li> </ul>

Cooking and Nutrition	Cooking and Nutrition	Cooking and Nutrition	Cooking and Nutrition
Designing	Designing	Designing	Designing
Generate and clarify ideas through discussion with peers and adults.	Generate and clarify ideas through discussion with peers and adults.	Generate innovative ideas through research and discussion with peers and adults to develop a design criteria for a design specification	Generate innovative ideas through research and discussion with peers and adults to develop a design brief and criteria for a design specification.
Discuss design criteria for a particular	Develop design criteria including	design specification.	
ideas to meet the design criteria.	appearance, taste, texture and aroma for an appealing product for a particular user and purpose with some support.	Explore a range of initial ideas, and make design decisions to develop a final product linked to user and purpose.	Explore a range of initial ideas, and make design decisions to develop a final product linked to user and purpose.
features/ingredients.	Make a labelled drawing/exploded diagrams showing specific features/ingredients.	Use annotated sketches and cross- sectional drawings to develop and	Use words, annotated sketches and information and communication technology as appropriate to
Research types of salads from around the world and use to inform designs.		communicate their ideas.	develop and communicate ideas.
Making	Making	Make design decisions that take account of the availability of resources.	Plan a two-course meal within a budget.
Follow a recipe and understand the steps	steps to cook a product with adult support.	Making	Making
I can get myself ready to cook and	I can get myself ready to cook and remember what I need to do to keep myself and others	Prepare, and follow a recipe to cook food to match design criteria with guidance from peers.	Prepare, and follow a recipe to cook food to match design criteria independently.
remember what I need to do to keep myself and others safe.	safe,	I can get myself ready to cook and talk about and demonstrate what I should do	I can get myself ready to cook and talk about and demonstrate what I should do during and after I cook
I can follow simple rules to make food in a hygienic environment.	environment for cooking.	during and after I cook.	I can select the most appropriate equipment for
I can recognise and name an increasing	I can recognise and name an increasing range of ingredients.	I can name an extended range of cooking equipment which I may not have used	what I am making.
range of ingredients.	I can name an increasing range of cooking	designed for its purpose.	I can use a range of extended range of cooking skills with confidence and accuracy to prepare increasingly challenging ingredients, firmer
I can name an increasing range of cooking equipment and explain what it	equipment and explain what it does- peeler, vegetable knife, grater.	I can select the most appropriate equipment for what I am making.	vegetables or unusual shapes and zesting.
does- peeler, knife, grater, chopping board, weighing scales, measuring spoons.	I can name and use a range of cooking skills with increasing competence- grating, chopping, mixing, simmering,	I can use a range of cooking skills with confidence to prepare increasingly challenging ingredients- firmer vegetables	Weigh and measure dry ingredients and liquids using digital and analogue scales, measuring spoons independently.
I can name and use a range of cooking skills with increasing competence-	Weigh and measure dry ingredients and	or unusual shapes and kneading. Weigh and measure dry ingredients and	Make, decorate and present the food product appropriately for the intended user and purpose.
grating, chopping, mixing. Weigh and measure dry ingredients and	with adult support.	liquids using digital and analogue scales, measuring spoons.	I try to minimise waste, recycle packaging and compost appropriate food waste when I am
liquids using measuring spoons with adult		I try to minimise waste, recycle packaging	Cooking.
Support.		and compost appropriate food waste when I am cooking.	I can manage my time effectively to ensure two courses are complete.

	Evaluating I am willing to taste different ingredients and can describe them using sensory vocabulary. I can comment on likes and dislikes and suggest ways to improve the recipe when made again with support. I can identify strengths of the final products including cooking skills used with support. I can make suggestions of how to make improvements of the final product with support.	Evaluating I am willing to taste different ingredients and can describe them using sensory vocabulary. Evaluate the product half way through production and make suggestions of how to improve the final product. I can identify strengths of the final products including cooking skills used. I can make suggestions of how to make improvements of the final product. Record the evaluation using e.g. star diagrams with given criteria.	<ul> <li>Evaluating Carry out sensory evaluations of a range of relevant products and ingredients with given vocabulary.</li> <li>Evaluate the product half way through production and make adaptations to the recipe/making process to improve final product.</li> <li>Record the evaluations using e.g. star diagrams with support to identify appropriate criteria.</li> <li>Evaluate the final product with reference back to the design criteria, taking into account the views of others when identifying improvements.</li> <li>Observe how ingredients, preparation and cooking can affect the end product.</li> </ul>	Evaluating Carry out sensory evaluations of a range of relevant products and ingredients. Record the evaluations using e.g. tables/graphs/charts such as star diagrams independently. Evaluate the final product with reference back to the design criteria, taking into account the views of others when identifying improvements. Observe how ingredients, preparation and cooking can affect the end product.
Protected Characteristics, Character Virtues and British Values	<ul> <li>Religion or belief.</li> <li>Tolerance of those of different faiths and beliefs.</li> <li>Rule of Law</li> <li>Democracy</li> <li>Tolerance</li> <li>Individual Liberty</li> <li>Mutual Respect</li> </ul>	<ul> <li>Religion or belief.</li> <li>Tolerance of those of different faiths and beliefs.</li> <li>Rule of Law</li> <li>Democracy</li> <li>Tolerance</li> <li>Individual Liberty</li> <li>Mutual Respect</li> </ul>	<ul> <li>Religion or belief.</li> <li>Tolerance of those of different faiths and beliefs.</li> <li>Rule of Law</li> <li>Democracy</li> <li>Tolerance</li> <li>Individual Liberty</li> <li>Mutual Respect</li> </ul>	<ul> <li>Religion or belief.</li> <li>Tolerance of those of different faiths and beliefs.</li> <li>Rule of Law</li> <li>Democracy</li> <li>Tolerance</li> <li>Individual Liberty</li> <li>Mutual Respect</li> </ul>

	Eatwell plate	Eatwell plate	food sources	Seasonality
7	Carbohydrates	Proportions	carbohydrates	seasons
e e	Proteins	Energy	bacteria	portion sizes
Š	Diary	Complements	kneading,	food groups
Ő	Fruit & veg	Dispose	yeast	complementary
äb	Sugar	Thickness	dough	ingredients
Ĕ	cultural	Texture	gluten	allergy
aŋ	ingredients	Colour	allergy	intolerance
	recipe	Aroma (smell)	intolerance	savoury
	texture	Star evaluation	proving	budget
	taste	Exploded diagram	rising	processed
	appearance		fermentation	courses- starter, main and dessert.
	smell		shaping	time management
	likes			
	dislikes			

	DT - SPRING TERM				
Year 3		Year 4	Year 5	Year 6	
Movement and construction Levers and Linkages		Electrical control Simple Circuits and Switches	Movement and construction Pulleys and Gears	Frames Structures	
Interactive Poster		E-Textiles	Moving Window Display	Wildlife Shelter	
	Creativity imagination engineering	(Taught in Summer)	Creativity imagination science engineering	Environment sustainability engineering	
Concepts	oreativity, integnication, engineering		Creativity, integritation, solence, engineering		
Prior knowledge	<ul> <li>KS1 National Curriculum-</li> <li>build structures, exploring how they can be made stronger, stiffer and more stable</li> <li>explore and use mechanisms [for example, levers, sliders in their products.]</li> <li>Gained experience of basic cutting, joining and finishing techniques with paper and card.</li> <li>EYFS – Mechanisms – Hickory Dickory</li> </ul>	<ul> <li>KS1 National Curriculum <ul> <li>understand and use mechanical systems in their products understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> </ul> </li> <li>Constructed a simple series electrical circuit in science, using bulbs, switches and buzzers.</li> <li>Cut and joined a variety of construction materials, such as wood, card, plastic, reclaimed materials and glue.</li> </ul>	<ul> <li>Experience of axles, axle holders and wheels that are fixed or free moving. (KS1)</li> <li>Experience of cutting and joining techniques with a range of materials including card, plastic and wood.</li> <li>An understanding of how to strengthen and stiffen structures.</li> <li>EYFS – Mechanisms – Hickory Dickory Clock and Mouse Year 1 – Sliders and Levers - Moving Pictures Year 2 – Wheels and Axles – Winding Mechanisms and axles for vehicles Year 3 – Interactive Posters</li> </ul>	<ul> <li>Experience of using measuring, marking out, cutting, joining, and finishing techniques with construction materials.</li> <li>Basic understanding of what structures are and how they can be made stronger, stiffer and more stable.</li> <li>EYFS – Structures – Minibeast Homes Year 1 – Freestanding Structures – Park Equipment Year 3- Mini Greenhouses</li> </ul>	

Cli Ye Pic Ye	ock and Mouse ear 1 – Sliders and Levers - Moving ctures ear 2 – Wheels and Axles – Winding echanisms and axles for vehicles	• A basic understanding of 2-D and 3-D shapes in mathematics and the physical properties and everyday uses of materials in science.		
	Movement and construction	Electrical control	Movement and construction	Frame structure
To ter Sta	b be able to measure and cut using mplates. art to understand that mechanical	To understand and use a simple series circuits using batteries, wires, bulbs, buzzers, motors and switches.	Demonstrate how to use skills in using different tools and equipment safely and accurately	Understand how to strengthen, stiffen and reinforce 3-D frameworks. To understand and use appropriate tools, materials, components and techniques and use
cre	eate movement.	circuit.	accurately	them.
To sy: To	o know how simple mechanical stems such as levers work	Know there are different types of switches. To be able to construct circuits containing 2 or more lamps or components	Understand that mechanical and electrical systems have an input, process and an output.	To confidently demonstrate how to use skills in using different tools and equipment safely and accurately with increasing independence.
ac	ccurately with a range of cutting and easuring tools.	Know and use technical vocabulary relevant to the project from a word bank.	Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.	Know how to keep myself and others safe when using cutting tools.
Di: piv Kn	stinguish between fixed and loose vots. now and use technical vocabularv	To know how to cut and stitch 2 pieces of felt type fabric using running stitch.	Know and use technical vocabulary relevant to the project.	With growing confidence cut and join with accuracy to ensure a good-quality finish to the product.
rel ma	levant to the project when designing, aking and evaluating.	I can explain who Bushra Burge is and the influences of their work.	I can explain who Harry Gordon Selfridge is and the influences of their work.	With growing confidence apply a range of finishing techniques, including those from art and design
Ju the	lien Wehr is and the influences of eir work.		use within my final product. (Crumble Coding)	Construct products using permanent joining techniques.
				Know and use a wide range of technical vocabulary relevant to the project
				I can explain who Balkrishna Doshi is and the influences of their work.

Designing Cencrate relative ideas through discussion, focusing on the needs of the user.Designing Cencrate relative information about needs and wants and develop design criteria to inform the design or products that are fit for puppes, aimed at particular individuals or groups with and develop design criteria to finor muto- design or products that are fit for puppes, aimed at particular individuals or groups with and user.Designing Center are fit for puppes, centeria to finor muto- windows.Designing Center are fit for puppes, centeria to finor muto- discourts and use anothed effectives to muto- the design or trend to guide the develop a simple design criteria to guide the develop at moduli and communicate ideas.Develop a simple design criteria to guide the develop at moduli and communicate ideas the tools.Develop at muto- meduli and communicate ideasDevelop at any develop at moduli and communicate ideas the tools.Develop at any develop at moduli and communicate ideas the tools.Develop at any develop at moduli.Develop at any develop at moduli.Develop at any develop at moduli.Develop at any develop at any develop at moduli.Develop at any develop at moduli. <th< th=""><th></th><th></th><th></th><th></th></th<>				
purpose. Use the views of others to improve their work.	<ul> <li>Designing Generate realistic ideas through discussion, focusing on the needs of the user.</li> <li>Identify and how to meet the success criteria/ design criteria for the unit.</li> <li>Use labelled diagrams to develop, model and communicate ideas.</li> <li>Making Identify and create prototypes of different levels and linkages.</li> <li>Identify issues within the mechanism and problem solve to make them work with support.</li> <li>Order the main stages of making.</li> <li>Select from and use tools to cut and shape card. Eg I can make accurate measurements to the nearest cm.</li> <li>Use appropriate ways to join card considering the desired movement.</li> <li>Select from and use finishing techniques suitable for the product they are creating.</li> <li>Evaluating Investigate and analyse books/cards with lever mechanisms.</li> <li>Evaluate their own products and ideas against design criteria with support.</li> <li>Evaluate prototypes made within the project to influence the final product.</li> </ul>	<ul> <li>Designing Gather information about needs and wants, and develop design criteria to inform the design of products that are fit for purpose, aimed at particular individuals or groups with support.</li> <li>Develop ideas through the analysis of existing products and use annotated sketches and prototypes to model and communicate ideas.</li> <li>Making Create a skeleton (prototype) of the working circuit required for a functioning bracelet.</li> <li>Order the main stages of making.</li> <li>Select from and use tools and equipment to cut, shape, join and finish with some accuracy- Eg, marking on measurements onto felt is different to marking onto paper.</li> <li>Use a range of tools and equipment safely and understand the rules of using needles, sharp metal thread.</li> <li>Explain their choice of materials according to functional properties and aesthetic qualities.</li> <li>Use finishing techniques suitable for the product they are creating and for the purpose.</li> <li>Evaluating Investigate and analyse a range of existing smart/e-textile products.</li> <li>Evaluate their ongoing work and methods throughout the project-reflect on areas of improvement.</li> </ul>	<ul> <li>Designing Generate innovative ideas by carrying out research related to the end product- shop windows.</li> <li>Develop a simple design criteria to guide the project with a focus on the Purpose, Product and User.</li> <li>Develop and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views.</li> <li>Making</li> <li>Using evaluation from prototypes and existing products, develop a list of materials, tools and order of stages to create a final product.</li> <li>Select from and use tools and equipment to cut, shape, join and finish with increasing accuracy.</li> <li>Use materials in a conservative way by carefully planning stages of cutting and measuring.</li> <li>To select and use a variety of techniques to decorate the product- painting, colouring, paper/craft work, use of software.</li> <li>To understand the elements of a Crumble circuit and coding blocks (related to Computing Overview).</li> <li>Successfully create, debug coding to create an automatic movement for final product.</li> <li>Evaluating</li> <li>Compare the final product to the original design criteria.</li> <li>Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for</li> </ul>	<ul> <li>Designing Carry out research and evaluate into existing products.</li> <li>Develop a simple design criteria to guide the development of their ideas and products, taking account of constraints including time and resources (limitations of the tools).</li> <li>Generate, develop and model innovative ideas through discussion, prototypes and annotated sketches.</li> <li>Use computer aided design to create suggested design ideas.</li> <li>Making</li> <li>Formulate a clear plan, including a step-by-step list of what needs to be done and lists of resources to be used and allocate tasks within a team.</li> <li>Competently select from and use appropriate tools to accurately measure, mark out, cut, shape and join construction materials to make frameworks.</li> <li>Use finishing and decorative techniques suitable for the product they are designing and making.</li> <li>Be aware of the constraints of time frames and manage time effectively to have a final product finished.</li> <li>Evaluating Investigate and evaluate a range of existing frame structures and materials.</li> <li>Critically evaluate their products against their design specification, intended user and purpose, identifying strengths and areas for development, and carrying out appropriate tests.</li> </ul>
			manutacture, functionality and fitness for purpose.	Use the views of others to improve their work.

			Consider the views of others to improve their work. Investigate famous manufacturing and engineering relevant to the project.	
< P	Religion or belief.	Religion or belief.	Religion or belief.	Religion or belief.
otected rtues an	• Tolerance of those of different faiths and beliefs.	<ul> <li>Tolerance of those of different faiths and beliefs.</li> </ul>	<ul> <li>Tolerance of those of different faiths and beliefs.</li> </ul>	<ul> <li>Tolerance of those of different faiths and beliefs.</li> </ul>
d Bri	Rule of Law	Rule of Law	Rule of Law	Rule of Law
acte Itish	Democracy	Democracy	Democracy	Democracy
ristic Valu	Tolerance	Tolerance	Tolerance	Tolerance
es C	Individual Liberty	Individual Liberty	Individual Liberty	Individual Liberty
naracter	Mutual Respect	Mutual Respect	Mutual Respect	Mutual Respect
	Mechanism	series circuit	Adhesive	Shell structure
	Adhesive	fault	Hacksaw	Frame structure
7	Measuring	connection	glue-gun	Join
ley	Prototype	switch	measuring	Stability
5	Loose and fixed pivot	battery	specifications	I riangulation
Ca	Linkages	wire	rotation	Consumer
bul	Input	crocodile clip	cams	Market research
ary	output	purpose/function	shaft	Adhesive
		e-textiles	frame	environment
		stitches	slider	
			lollower	

	DT - SUMMER TERM				
	Year 3	Year 4	Year 5	Year 6	
	Frame Structures	Textiles 2D shape to 3D shape	Textiles Combining Different Fabric Shapes	More Complex Switches Electrical control	
	Mini Greenhouses	Pencil Case with embellishment	Item with a fastening	Electric Game- Steady Hand Game	
	(Taught in Autumn)	(Taught in Spring)			
Concept	Environment, sustainability, engineering	Fashion, textiles, consumer	Fashion, textiles, eco-friendly,	Entertainment, summer fair	

Prior knowledge	KS1 National Curriculum- build structures, exploring how they can be made stronger, stiffer and more stable explore and use mechanisms [for example, levers, sliders in their products.] Build structures, exploring how they can be made stronger, stiffer and more stable. Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. EYFS – Food – Gingerbread men, Sandwiches and Fruit Kebabs Year 1 – Food – Pizza, Stir Fry, Cheese Straws and Easter Buns Year 2 – Cakes, Bread and Mexican Chips and dip	<ul> <li>KS1 National Curriculum- 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</li> <li>Have joined fabric in simple ways by gluing and stitching.</li> <li>Have used patterns and templates for marking out.</li> <li>Have evaluated a range of textile products.</li> <li>EYFS – Textiles – Waterproof materials for boat building, Poppy sewing (optional)</li> <li>Year 2 – Textiles – Templates and joining techniques – Sewing – Easter Crafts</li> </ul>	<ul> <li>Experience of basic stitching, joining textiles and finishing techniques.</li> <li>Experience of making and using simple pattern pieces.</li> <li>EYFS – Textiles – Waterproof materials for boat building, Poppy sewing (optional)</li> <li>Year 2 – Textiles – Templates and joining techniques – Sewing – Easter Crafts</li> <li>Year 4- Textiles- Pencil Cases and E-Textiles</li> </ul>	<ul> <li>Understanding of the essential characteristics of a series circuit and experience of creating a battery powered, functional, electrical product.</li> <li>Initial experience of using computer control software (coding)</li> </ul>
	Frame structure	Textiles - 2D shape to 3D shape	Textiles - Combining Different Fabric Shapes	More Complex Switches Electrical control
	and explain how particular parts of their product works.	Understand how to securely join two pieces of fabric together using different techniques.	Understand a 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes and different	Understand and use electrical systems in their products.
	To explore what shape make a structure strong by making a prototype.	Understand the need for patterns and prototypes.	fabrics.	To be able to make circuits using batteries, wires, bulbs, buzzers, motors and switches
	Understand how to strengthen 3-D framework using different techniques.	To know how to cut and stitch 2 pieces of felt type fabric using running stitch.	appropriate to the material/product.	To know how to make a circuit containing 2 or more devices.
	Know how to keep myself and others safe when using cutting tools.	To be able to use simple embroidery using thick wools, range of fabrics, beads, buttons and sequins.	Select appropriate tools, materials, components and techniques to the final product.	Understand how to strengthen 3-D net using different techniques.
	materials to cut and join card.	Know and use technical vocabulary relevant	To select an appropriate fastening for the product designed.	over function' quote and Patricia Urquiola is and the influences of their work.
	Peter Van de Toorn Vrigthoff is and the influences of their work.	I can explain who Alexander Mcqueen is and the influences of their work.	Aim to make and to achieve a quality product.	Explain simply what is meant by 'form' (the shape of a product) and 'function' (how a product works).
	Know and use relevant technical vocabulary with support.		Use seam allowance on inside of variety of shaped products using back/blanket/running stitch, fine needles and thread	Know and use a wide range of relevant technical vocabulary.
			I can explain who Thierry Hermes	

		is and the influences of their work.	
		Know and use an increasing range of relevant technical vocabulary.	
Designing	Designing	Designing	Designing
Carry out research into existing greenhouses and identify their successes.	Carry out research into existing products to inform design process.	Generate innovative ideas by carrying out research into different types of bags and their purpose.	Use research to develop a design criteria for a functional product that focuses on market research.
Develop a simple design criteria to guide the development of their ideas with some support.	Develop a simple design criteria to guide the development of their ideas using their research from existing products with some support.	Develop, model and communicate ideas through talking, drawing, templates, mock- ups and prototypes.	Make design decisions that take account of the availability of resources and time.
Generate, develop and model	Produce annotated sketches and	Design purposeful, functional, appealing	Generate and develop innovative ideas and share and clarify these through discussion.
innovative ideas through discussion,	pattern/prototype to show development of	products for the intended user that are fit for	, 6
prototypes and simple labelled sketches.	design.	purpose based on a design criteria.	Communicate ideas through annotated sketches, pictorial representations of electrical
	Making	Making	circuits or circuit diagrams.
Making	Identify the materials and equipment are needed to create final product with some	Produce detailed lists of equipment and fabrics relevant to their final product.	
Discuss what equipment and materials	support.		Making
are needed to create final product with		Formulate step-by-step plans , considering	Formulate a step-by-step plan to guide making,
support.	Select and use a range of appropriate tools	the effect of the order of the steps- ironing on	listing tools, equipment, materials and
Identify key steps to create a final	with some accuracy e.g. cutting fabrics , joining using running stitch and finishing.	the heat transfer before sewing.	components.
product to match design.		Select from and use a range of tools and	Competently select and accurately assemble
	Select fabrics and fastenings according to	equipment to make products that are	materials, and securely connect electrical
Select from and use appropriate tools	their functional characteristics e.g. strength,	accurately assembled and well finished.	components to produce a reliable, functional
ioin construction materials to make	and aesthetic qualities e.g. pattern.	Work within the constraints of time and	
frameworks with support.	Evaluating	resources	Work within the constraints of time and
·····	Investigate a range of 3-D textile products		resources.
Construct skeleton/frame frames using	relevant to the project.	Make adaptations to original plan if needed.	
permanent joining techniques- staples			Make adaptations to original plan if needed.
with supervision or PVA glue, card	Test their product against the original design	Evaluating	
triangles/strips or elastic bands.	criteria and with the intended user.	Investigate and analyse textile products	Use CAD independently as a finishing
Lise decorative techniques to finish the	Listen to others' views when evaluating final	linked to their linal product.	technique.
final product.		Compare the final product to the original	Evaluating
······ P······		design criteria.	
		-	Analyse existing products with the focus of
Evaluating		Test products with intended user and critically	function, costs, aesthetics and
Investigate and evaluate a range of		evaluate the quality of the design,	target market of product.
existing frame structures with support.		manufacture, functionality and fitness for	Continually evoluate and modify the working
Identify the strengths of final product		purpose.	continually evaluate and modify the working features of the product to match the initial
using given guestions linked to the		Consider the views of others to improve their	design specification
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	original design criteria. Identify an area of improvement using the design criteria.		work. Understand how a key event/individual has influenced the development of the chosen product and/or fabric.	Test the system to demonstrate its effectiveness for the intended user and purpose. Consider the views of others to improve their work and build into their evaluations.
				ground-breaking electrical systems and components
Protected Characteristics, Character Virtues and British Values	<ul> <li>Religion or belief.</li> <li>Tolerance of those of different faiths and beliefs.</li> <li>Rule of Law</li> <li>Democracy</li> <li>Tolerance</li> <li>Individual Liberty</li> <li>Mutual Respect</li> </ul>	<ul> <li>Religion or belief.</li> <li>Tolerance of those of different faiths and beliefs.</li> <li>Rule of Law</li> <li>Democracy</li> <li>Tolerance</li> <li>Individual Liberty <ul> <li>Mutual Respect</li> </ul> </li> </ul>	<ul> <li>Religion or belief.</li> <li>Tolerance of those of different faiths and beliefs.</li> <li>Rule of Law</li> <li>Democracy</li> <li>Tolerance</li> <li>Individual Liberty</li> <li>Mutual Respect</li> </ul>	<ul> <li>Religion or belief.</li> <li>Tolerance of those of different faiths and beliefs.</li> <li>Rule of Law</li> <li>Democracy</li> <li>Tolerance</li> <li>Individual Liberty</li> <li>Mutual Respect</li> </ul>
Key Vocabulary	Structure Greenhouse Material properties reinforce stable design criteria measure mark out cut join assemble architect.	fabric needles thread embellishments joining- glue or stitch finishing techniques stitch mock up/pattern annotated sketch	seam allowance reinforce fastening poppers/buttons/Velcro handles heat transfer CAD Applique Stitches Embroidery	series circuit open/closed switches components input device output device system precision innovative current backboard



Structure of Lessons – Investigative and Evaluative Activity (IEA), Focused task/s, Design Prototype, Making, Evaluation (See Project on Pages)

8-12 hours of DT per term