Griffin Park Design Technology Curriculum Golden Threads



Food











Mechanisms

Digital

	Nursery								
Thread		Focus	Knowledge		Skills	Vocabulary			
	Pur	mpkin soup	Know that a pumpkin is a fruit. Know that a pumpkin grows from a seed.	Use carving, s	pumpkin with the five senses. cooping, and mixing motor skills. and evaluate the soup.	Fruit Blender Hob Carve			
	Junl	k modelling	Know how to cut and join different materials. Begin to know how to use simple finishing techniques to enhance the design.	Develop a junk model. Improve fine motor/scissor skills. Describe their junk model.		Join Stick Bend Slot Fix			
(LB)	Ma	king masks	Begin to know what a design is. Begin to follow a design that they have made.	Draw what they want to create on a piece of paper and then try to construct it. Decide what resource they will need to join the materials together.		Design			
Learning links to enhance long term memory Halloween Autumn Harvest Transport Animals – lan		Autumn Harvest	d and sea	Assessment	To be able to hold scissors accurate to be able to cut paper independent to be able to choose the approp	dently.			

	Reception							
Thread	Focus	Knowledge		Skills	Vocabulary			
<u></u>	Christmas tree decorations	Know how to copy a design that they have created Know some finishing techniques	Design a hanging decoration winter themed. Create their design out of appropriate materials. Make a fixed joint e,g, staple, glue Use finishing techniques to ensure a complete product.		Winter Hanging Fabric Join			
	Bug hotel	Know that insects are important. Know where insects like to live.	Choos	ent materials to decide which will suit their purpose. e an insect to design for. w to construct their product.	Minibeasts Insect Habitat Materials			
	Rainbow salad	Know that vegetables grow. Know why eating healthy is important. Know why to keep an area and hands clean.	Design a healthy salad using some own grown ingredients. Use a knife safely to chop and slice. Explain what they like about their salad.		Ingredients Healthy Chop Slice			
Learning links to enhance long term memory Christmas Minibeasts Spring Gardening		1	Assessment	To be able to use finishing techniq To be able to select appropriate m To know how to safely use a knife	naterials.			

	Year 1 Autumn								
Thread	Focus	Knowledge		Skills	Vocabulary				
	Make a moving story book	To know that a mechanism is the parts of an object that move together.	Explore and evaluate a range of existing products.		Mechanism Product Slider Slot				
(a)	Make a moving story book	To know that in DT we call a plan a design.	Design a m	oving story picture for a given audience.	Design Bridges Guides				
(a)	Make a moving story book	To know how to construct a successful moving mechanism. To know how to select and use a range of tools and equipment to perform practical tasks.	Choose from components,	sign to create a moving model. a wide range of materials and including construction materials ing to their characteristics	Construct				
(S)	Make a moving story book	To know how to review their own product.	Test a finished product, seeing whether it moves as planned or not.		Test Review				
Learning links to enhance long term memory Nursery rhymes Link to English text		Assessment To be able to create a mechanism successfully for their intended product.		n successfully for their intended					

	Year 1 Spring							
Thread		Focus	Knowledge		Skills	Vocabulary		
	Veg	ggie Snacks	To know the names of a variety of fruit and vegetables.		ingredients and make recipe. Use knife cut method and claw cut method and mash with a fork.	Bridge cut Claw cut		
	Fr	ruit Salad	To know the difference between a fruit and vegetable.	od, claw cut m	ingredients and make recipe. Use knife skills- bridge cut meth# nethod, peeling of soft foods, measuring I cups, arranging and scooping foods.	Peeling measuring		
	Oaty E	nergy Biscuits	To think about what our bodies need to be healthy.	skills- dividing kneading and s	ngredients and make recipe. Use baking and pouring mixture into tins and cases, haping, handling/rolling dough and using scales (balancing to zero).	Ingredients Recipe		
	Apple	Toast Crunch	To know which foods are good for us and which we should avoid.	skills- claw cut	ingredients and make recipe. Use knife method, measure with spoons and cups, edients and toppings and spreading with a knife.	Spreading		
	Bar	nana Bread	To know which foods give us energy.	Chn prepare ingredients and make recipe. Chn practice peeling soft foods and using baking skills such as: sieving, beating and cracking eggs, dividing mixture into tins and cases, mixing to form a dough, measuring with		Chop Hygiene Blend		
Loarning links	to	Growing thing	Tr.	spoons and cups, using scales and mashing with a fork.				
Learning links enhance long memory		Growing thing Seasons Healthy eating		Assessment Know the difference between fruits and vegetables and where some of them grow.				

			Year 1	L Summer		
Thread	Focus		Knowledge		Skills	Vocabulary
	Constructi windm	_	To know what a windmill is and what it is used for.	Learn about the history of windmills. Record relevant information.		Grind Turn Pump Wind power
	Constructi windm	•	To know what a client is and design criteria.	To design criteria created for the client, Mouse, who lives in the windmill in Old Amsterdam.		Client Design criteria
	Constructi windm	•	To know that a cylinder is a strong base shape. To understand that they can change the sturdiness of their structure.		pase templates and construct ring that it stands freely.	Structure Cylinder Split pin
	Constructi windm	_	To understand that axles are used to make parts turn in a circle.		nal sails that are supported by an e to enable a 360 turn.	Axle 360 degrees
	Constructi windm	•	To know how to evaluate against a design criteria.	Evaluate against the criteria – stand on its own, is decorated for the client, the sails turn easily.		Brief
Learning links enhance long memory		o a wind iendly p	dmill – Lytham Windmill Museum ower	ill Museum Assessment To judge their own		nst a design criteria.

		Year	2 Autumn	
Thread	Focus	Knowledge	Skills	Vocabulary
<u>(L</u>)	Puppets	To know how to design a hand puppet.	Evaluate hand puppets and discuss what features they need to think about when creating their own.	Features Thread Needle
<u>L</u>	Puppets	To know what a running stitch is.	Successfully thread a needle and join two pieces of a chosen textile with a running stitch	Running stitch . Threading Textiles – cotton, felt
<u>C</u>	Puppets	To know how to use a template.	Create a template that will cover their hand and use this to cut out their chosen textile. To pin and cut their textile following the template they created.	Template Pinning Trimming
<u></u>	Puppets	To know how to use a running stitch.	Join their textiles together using a running stitch ensuring a gap is left to insert their hand	Knots I. thimble
<u>(P</u>	Puppets	To know how to finish their product off appropriately.	Select from and use a wide range of materials and components according to their design.	Fabric glue Applique
<u>(P</u>	Puppets	To know how to evaluate their product against their own design.	Evaluate the quality of their own stitch. Identification aspects of their own work, which they particularly like.	Even
Learning links enhance long memory			Assessment To be able to sew two pieces of material together using an evenly spaced running stitch.	

		Year	2 Spring	
Thread	Focus	Knowledge	Skills	Vocabulary
(a)	Moving monsters	To look at objects and know how they move.	Explore and evaluate a range of items that use levers, linkages and wheels.	Levers Links
(B)	Moving monsters	To know that a lever is something that turns on a pivot. To know that a linkage mechanism is made up by a series of levers.	Explore making levers using card for levers and split pins for pivots. Experiment with width, length and thickness of the card.	Pivot Linkages Split pin
(B)	Moving monsters	To know how to design a moving monster.	Create a class design criteria for a moving monster with a specific audience in mind. Use peer feedback to modify the final design.	Audience Feedback Review
(B)	Moving monsters	To know how to create a design they have made.	Cut and assemble components neatly and with care.	Components
	Moving monsters	To know how to evaluate against a given design criteria.	Give peer feedback on each other's products. Discuss how our product could be improved.	Input Output
Learning links to enhance long term memory RSHE			Assessment Know that mechanisms are a collection	ction of moving parts.

		Year 2	Year 2 Summer						
Thread	Focus	Knowledge	Skills	Vocabulary					
	Traffic Light Salad	Continuation of Year 1 objectives.	Chn prepare ingredients and make recipe. Use their knowledge to understand what constitutes a balanced diet – look at hidden sugars in foods and drinks. Use knife skills- bridge cut and claw cut, use scissors and grate. Learn how to tear and arrange ingredients and toppings.	Nutrition Portion size Chopping grating					
	Fruit Smoothies	To understand why our bodies need fruit and vegetables.	Chn prepare ingredients and make recipe. Use vocabulary to describe the foods they taste. Use knife skills- bridge cut and claw cut. Peel fruit. Measure with spoons and cups, use jugs to measure liquid and tear ingredients.	(Various descriptive words)					
	Flapjack	To know why milk and dairy products are important in our diet.	Chn prepare ingredients and make recipe. Learn how to sieve, divide mixture into tins and cases, mix a dough, measure with spoons and cups and use scales to weigh ingredients.	Recipe					
	Greek Salad	To know the five main food groups (in generic form).	Chn prepare ingredients and make recipe. Use knife skills- bridge cut and claw cut, use scissors to chop ingredients, tear ingredients, arrange toppings and beat salad dressing together.	Hygiene beat					
	Tomato & Basil Topped Bruschettas	To know where our foods come from and how they are reared, grown or caught.	Chn prepare ingredients and make recipe. Use knife skills- bridge cut and claw cut, use scissors to chop ingredients, tear ingredients, arrange toppings and make breadcrumbs.	Arrange tear					
	Rock Buns	To know how to make a healthy alternative of a food.	Chn prepare ingredients and make recipe. Chn learn how to seive, crack eggs, rubbing fat into flour, mixing to form a dough, kneading and shaping, measuring with cups and spoons and using scales to measure ingredients.	Rubbing Shaping kneading					
Learning links enhance long memory			Assessment To know what makes a healthy diet.						

			Year 3	3 Autumn		
Thread	Fo	cus	Knowledge		Skills	Vocabulary
	Light u	p cards	To know how to follow a brief design.	Use a design brief to plan and design a product.		Design brief Label
	Light u	p cards	To know how a basic circuit works.	Use copper tape to create a simple circuit with a switch.		Circuit Electrical tape Coin battery*
	Light u	p cards	To know what a prototype is.	•	nowledge to test out a prototype ustments to design if necessary.	Prototype Positive Negative
	Light u	p cards	To know how to design and finish their front cover.	Use resourc	es and joining skills to follow a design.	Functioning Integrate
-0.0	Light u	p cards	To complete a working circuit and evaluate their card against the design brief.	Use circuit making skills and finishing skills to have a working product.		Recipient Evaluation
Learning links to enhance long term memory Christmas Winter		Assessment	Know how to make a working pap	oer circuit		

^{*}coin batteries can pose a choking hazard – risk assessment needed

		Year	3 Spring		
Thread	Focus	Knowledge		Skills	Vocabulary
	Fruit and Veg Cous Cous	To understand the purpose of fruits and vegetables in our diet.	vocabulary t skills- brid	oare ingredients and make recipe. Use o describe the foods they taste. Use knife lge cut and claw cut, use scissors to cut learn how to grate hard foods and how to garnish and present food.	(Various descriptive words)
	Fish Fingers	To know how fish gets to the plate and what benefits we get from eating it.	Chn prepare ingredients and make recipe. Use knife skills- claw cut method, use scissors to cut ingredients, grate hard foods and practice how to garnish and present food.		garnish
	Bread-ge-hogs	To be able to name different carbohydrate rich foods.	Chn prepare ingredients and make recipe. Learn how to sieve, mix ingredients to form a dough and kneading. Learn how to handle dough and how to glaze dough. Use scales to weigh ingredients, use scales to add measures and learn how to shape dough.		Dough Knead Measure shape
	Caribbean Red Pepper Salsa	To know the names of the 5 main food groups and the nutrient they are high in.	skills- bridg scissors t ingredients to	e ingredients and make recipe. Use knife cut method and claw cut method. Use o cut ingredients and practice beating ogether. Learn how to make breadcrumbs how to garnish and present food.	Beating Present ingredients
	Mushroom Risotto	To be able to explain the pros and cons of home cooking vs ready meals.	skills- bridg scissors to cut	e ingredients and make recipe. Use knife e cut method and claw cut method. Use ingredients up. Use jugs to measure liquid d practice making breadcrumbs.	Bridge cut Measure Claw cut
	Welsh Cakes	To know how to make a dish from another region.	Chn prepare ingredients and make recipe. Learn how to sieve, how to crack and beat eggs together and how to rub fat into flour. Learn how to mix to form a dough and how to use cutters on rolled out pastry.		Roll Form rub
	Learning links to enhance long term memoryFood tasting Science-Nutrition RSHE- Eating HealthyAssessment cooking.To know how to correctly handle knives and prepare a cooking.			d prepare area for	

			Year 3	3 Summer		
Thread		Focus	Knowledge		Skills	Vocabulary
	Pneu	ımatic toys	To know how pneumatic systems work.	•	entify definitions for key terms. ve appropriate design criteria.	Pneumatic
(a)*(a)*(a)*(a)*(a)*(a)*(a)*(a)*(a)*(a)*	Pneu	imatic toys	To know how to design a toy using a pneumatic system.	exploded dia	e and develop one idea using an agram. Draw accurate diagrams labels, arrows and explanations.	Exploded diagram
(a)	Pneu	ımatic toys	To know how to create a pneumatic toy.		riate equipment and materials to working pneumatic system.	Working system
(a)*(a)*(a)*(a)*(a)*(a)*(a)*(a)*(a)*(a)*	Pneu	ımatic toys	To know how to make a pneumatic toy and make any adjustments needed.		eir pneumatic system within the o create the desired motion.	Desired motion Adjustments
	Pneu	ımatic toys	To know how to evaluate a pneumatic toy.	Create a finished pneumatic toy that fulfils the design brief.		Evaluation fulfil
Learning links to enhance long term memory RSHE English text links		Assessment	To create a working toy			

		Year 4	4 Autumn		
Thread	Focus	Knowledge		Skills	Vocabulary
	Summer Slaw	Continuation of Year 3 Nutritional Objectives.	vocabulary to cut knife meth	re ingredients and make recipe. Use describe the foods they taste. Use claw nod, peel and grate hard foods. Practice sure with cups and spoons and how to tear ingredients.	(Various descriptive words) Grate Measure mix
	Vegetable Paella	To explain the need for a balanced diet and why we need more of some food groups.	skills- bridge	ingredients and make recipe. Use knife cut method and claw cut method. Use p ingredients. Beat ingredients together and shape.	Shape
	Carrot and Banana Muffins	To understand that some people will change their diet to suit a need (exercise etc).	to peel soft a Practice sievi mixture betw	ngredients and make recipe. Learn how and hard, as well as grating hard foods. ing, cracking and beating eggs, dividing een tins, mixing to form a dough, using measures and mashing with a masher.	Sieving dividing
	Lentil Soup	To consider diets around the world and why they might differ to ours.	skills- bridg peeling hard	ingredients and make recipe. Use knife ge cut method and claw cut method, foods and use jugs to measure liquid. Ding and crushing, peeling and chopping garlic.	Scoop Crush peel
	Pasta Bake	To identify ways to make a meal healthier.	Chn prepare ingredients and make recipe. Use knife skills- bridge cut method and claw cut method. Practice grating soft foods, arranging ingredients and toppings, crushing and peeling garlic and garnishing and presenting the finished product.		garnish
	Apple Sponge	To explain the purpose of protein, carbohydrates and fats in the diet.	Chn prepare ingredients and make recipe. Use knife skills- claw cut method and practice sieving, cracking eggs, creaming fat and sugar, folding mixture into flour and using scales to add measures.		cream
Learning links enhance long memory		rition	Assessment	To know how to prepare a variety of dis	shes.

	Year 4 Spring						
Thread	Focus	Knowledge		Skills	Vocabulary		
<u></u>	Money container	To know the features of different money containers.		erent types of money containers and label them. er template of a money container of their choice.	Purse Wallet Piggybank Template		
<u>L</u>	Money container	To know how to sew using different techniques.	at blanket st	g stitch form Year 2 and then look itch. Choose the stitch that they Ill be best for their product.	Blanket stitch		
(P)	Money container	To know how to design their own money container.	Draw and annotate designs for money containers for an 'audience' of their choosing.		Specification Fastenings		
<u>L</u>	Money container	To be able to make a money container using textiles.	Use hand-sewing technique to create a money container.		Hand stitch		
<u>L</u>	Money container	To be able to evaluate a finished product.	Show and evaluate own and others finished product.		Peer evaluation		
_	Learning links to History		Assessment	To know how to attach two piece	es of fabric with a hand stitch.		
enhance long	term						
memory							

	Year 4 Summer						
Thread		Focus	Knowledge		Skills	Vocabulary	
(a)(8)	Sli	ngshot car	To know how to design a slingshot car.	design of the	educe air resistance through the shape. Research ideas of shapes efore designing own.	Increase Decrease Speed Annotated	
(S)	Sli	ngshot car	To know what a chassis is and why it needs to be sturdy.		ndently to produce an accurate, car chassis with moving axles.	Chassis Axle Hand saw Health and safety	
(a)(a)	Sli	ngshot car	To know how to make a car body.	Produce panels that will fit the chassis.		Panels Sturdy	
(%)	Sli	ngshot car	To design a fair test for the cars the class has made.	Conduct a trial accurately and draw conclusions and improvements from the results.		Competition Fair test Friction Incline	
Learning links enhance long	Learning links to Maths – measuring, distance. enhance long term Science – forces.		Assessment	To know what a chassis and axle is.			
memory	Cilli	Science Tork					

Year 5 Autumn						
Thread	Focus	Knowledge	Skills	Vocabulary		
	Pop up toy	To know how to follow a design brief.	Follow a specific brief and design a winter themed pop up toy.	Cams Client		
(a)(a)	Pop up toy	To know the movement different types of cams make.	Decide what shape cam they want and how it will be positioned in order to move their toy.	Linear Rotary Axle Follower Slider		
(S)	Pop up toy	To know how to produce a working mechanical cam system.	Create the cam system ensuring a smooth rotation of the handle.	Rotation		
(S)	Pop up toy	To know how to decorate the cam in the design inspired by the brief and client.	Individually decorate the toy to fit the brief and ensure the finishing touches are neat and efficient.	Efficient		
(a)	Pop up toy	To know how to evaluate the effectiveness of the toy created.	Peer review each other's toys and say what they would do to improve a toy that they may produce in the future.	Changes Effectiveness		
_	Learning links to enhance long term memory Christmas Winter Assessment To know how a cam mechanism works.			orks.		

	Year 5 Spring					
Thread	Focus	Knowledge	Skills	Vocabulary		
	Bridges	To know how to reinforce a structure to improve its strength and span gaps.	Use technical vocabulary to describe how beam bridges are constructed.	Cross section Beams Pillars Piers Construction		
	Bridges	To know ways in which arches are used to strengthen bridges.	Understand that arches are used to spread and redirect compression forces acting on bridges. Build and test model arch bridges.	Arches Compression forces Redirect		
	Bridges	To know how suspension bridges are able to span longer distances.	Understand that suspension bridges use tension to support bridge decks and research famous ones.	Bridge deck Tension Tower bridge Golden Gate bridge		
	Bridges	To know how to develop a prototype	Design a prototype that will enable a toy car to travel from one table to another.	Prototype		
	Bridges	To know how to improve upon a prototype design to ensure it will succeed.	Reflect on own design and prototype and enhance the design to make it more structurally sound.	Successful Structural		
Learning links enhance long memory		-famous landmarks around the world	Assessment To know different ways in which b	ridges can be strengthened.		

Year 5 Summer						
Thread	Focus	Knowledge		Skills	Vocabulary	
	Pasta Salad	Continuation of Year 4 objectives.	vocabulary to o skills- bridge scissors to o	e ingredients and follow recipe. Use describe the foods they taste. Use knife cut method and claw cut method. Use cut and practice tearing ingredients. ping, beating ingredients together and making breadcrumbs.	(Various descriptive words) breadcrumbs	
	Fish Cakes	To explain the different methods of food preparation and the impact of these on our diet.	skills- bridge foods. Pra ingredients	ngredients and follow recipe. Use knife cut method, peeling and grating hard actice mashing ingredients, beating together, making breadcrumbs and nishing and presenting food.	Garnish Bridge cut	
	Spring Rolls	To understand the negative impact of eating an imbalance of the food groups.	Chn prepare ingredients and follow recipe. Use knife skills- bridge cut method and claw cut method. Practice grating hard foods, handling/rolling pasty and glazing pastry.		Handle Roll glaze	
	Vegetable Soup	To learn about alternative diets (veganism etc).	Chn prepare ingredients and follow recipe. Use knife skills- bridge cut method and claw cut method. Learn how to peel hard foods and measure liquids in a jug.		Peel Claw cut	
	Savoury Scones	To become aware of the hidden extras (sugar etc) that can be hiding in our foods.	Chn prepare ingredients and follow recipe. Use knife skills- claw cut method. Practice sieving, cracking eggs, rubbing fat into flour, mixing to form a dough, kneading and shaping and glazing dough. Use scales to measure.		Glazing Kneading shaping	
	Chicken Stir Fry	To understand the consequences of bad eating and unhealthy lifestyles.	Chn prepare ingredients and follow recipe. Use knife skills- claw cut method and bridge cut method. Use scissors to chop ingredients, measure, weigh ingredients, and learn how to garnish and present food.		Presentation	
Learning links to Science- nutrition enhance long term memory			Assessment	To know how create a healthy meal.		

	Year 6 Autumn						
Thread	Focus	Knowledge		Skills	Vocabulary		
	Steady hand game	To know how to analyse a range of children's toys.	Explain simply what is meant by 'form' (the shape of a product) and 'function' (how a product works) Identify and label the components of a steady hand game.		Components Form Function Wire track Handle		
-0,0-	Steady hand game	To know how to design a steady hand game.	Design a steady hand game of their own according to their design criteria, using four different perspective drawings.		Perspective drawings		
-0,0-	Steady hand game	To know how to make a working circuit using a buzzer and bulb.	Create a working circuit that will then be accurately drawn and labelled in books.		Circuit Buzzer Bulb		
-0,0-	Steady hand game	To know how to construct a stable base for a working circuit.	Create a secure base for their game, with neat edges, which relates to their design.		Base		
-0,0-	Steady hand game	To know how to create and evaluate a steady hand game.	Make and test a functioning circuit and assemble it. Once complete evaluate it and adjust as needed.		Adjust		
Learning links to Science – electricity enhance long term memory		Assessment	To know how to create a working	circuit			

Year 6 Spring					
Thread	Focus	Knowledge	Skills	Vocabulary	
	CAD Interior design	To know what CAD is and to record initial ideas of interior designing.	Use technology and sketching to de organised system for drawing ide documenting progress.	· ·	
	CAD Interior design	To know what reference images are and how they could be used.	Develop proportional models base measurements.	d on real Mood board Portfolio Proportion Shape library	
	CAD Interior design	To know how to organise a design as a blueprint.	Choose an appropriate scale to crea on a Tinkercad workplane.	· · · · · · · · · · · · · · · · · · ·	
	CAD Interior design	To know how to alter measurements on an online programme	Covert feet/inches to millimet	tres. Adjust Skillset	
	CAD Interior design	To know how to follow a plan to create our own 3D room.	Create a 3D room and accessories easily identifiable	that are Accessories Furniture	
	CAD Interior design	To know how to evaluate and share our opinions.	Evaluate own 3D rooms.	Techniques Aesthetic	
Learning links to computing enhance long term memory Computing		Assessment Create a personalise	d 3D room on an online platform.		

	Year 6 Summer						
Thread	Focus	Knowledge		Skills	Vocabulary		
	Jambalaya	Continuation of Year 5 National Objectives.	Apply the pri	e ingredients and follow recipe. Inciples of a healthy diet to foods	Seasonality		
	Bean Burgers	Review of previous learning to solidify understanding (food groups, balanced diet etc).	knife skills- l method. Prac	ngredients and follow recipe. Use oridge cut method and claw cut tice grating and peeling foods, as a using scales to measure.	Varied diet		
	Focaccia Bread	To know that diets around the world are based on similar food groups.	Apply the pri	e ingredients and follow recipe. Inciples of a healthy diet to foods Orm around the world.	Savoury		
	Tomato and Carrot Soup	To consider current issues such as "The Obesity Crisis".	Practice using	e ingredients and follow recipe. If the hob (with supervision) and g ingredients and toppings.	hob		
	Dutch Apple Crumble	To debate current topics such as "The Sugar Tax" Pros and Cons.	Chn prepare ingredients and follow recipe. Practice knife skills- bridge cut method and claw cut method. Practice peeling hard foods, using scales to measure ingredients and arranging toppings and ingredients.		arrange		
	Creative Task	Design and make a healthy recipe, with inspiration from around the world.	Look back at the all of skills learnt and evaluate own skills and the results that were made.		Evaluate Rate		
Learning links to Geography- locational knowledge Science-Nutrition memory		Assessment	Evaluate own skills in cooking suc etc.	h as, chopping, following a recipe,			