

Design and Technology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1		Cooking- Jam Tarts		Vehicles		Sewing- Sock Puppet
Year 2	Moving Pictures		Sewing- bookmarks		Cooking- pizza	
Year 3		Pop up books		Sewing- pencil cases	Cooking- Bread and butter	
Year 4		Sewing- cushions	Moving parts- playgrounds			Cooking- Ratatouille
Year 5		Cam toys		Cooking- pitta bread		Sewing- bags
Year 6	Cooking- Mezze			Electric toys		Sewing- upcycling

Reception

(Reference document made previously linking curriculum subjects to ELG and Reception curriculum)

Year 1

	Cooking- Jam Tarts	Vehicles	Sewing- Sock puppet
<p>Knowledge Goals</p> <p>These should be taken from the Knowledge Goal section of any Session plans that include them</p>	<ul style="list-style-type: none"> • Jam tarts/mince pies are sweet pies made out of pastry • Fruit which grows in the summer can be preserved to use in the winter • Making jam/mincemeat is a way of preserving fruit to last until winter/ Christmas 	<ul style="list-style-type: none"> • A vehicle is something that transports people or things from one place to another • Lots of vehicles have wheels • An axle can join two wheels on a vehicle together • Designing means planning how something is going to look and work • When we design a product we need to think about who will use it, what it is for, and what it will look like • Properties of materials are things we can measure, see or feel and effect how we use materials 	<ul style="list-style-type: none"> • Objects are made from different materials which are suitable for what we use them for • Fabric is suitable for making clothes and puppets • We can reuse materials for a new or reason or purpose • Designing means planning how something is going to look and work • When we design a product, we need to think about who will use it, what it is for, and what it will look like • Properties of materials are things we can measure, see or feel and effect how we use materials
<p>Teir 2 vocabulary</p> <p>These should be taken from the Vocabulary section of any Session plans that include one, but only the Teir 2</p>	<p>sweet • savoury • cook • bake • raw • recipe • season • preserve</p>	<p>design •user •function •appearance •feature •materials •properties •suitable •fabric •recycle •reuse •waste •design</p>	

should be used.

Year 2

	Moving Pictures	Sewing Bookmarks	Cooking Pizza
<p>Knowledge Goals</p> <p>These should be taken from the Knowledge Goal section of any Session plans that include them</p>	<ul style="list-style-type: none"> • A lever is a mechanism which uses a bar and a pivot to move heavy loads • A sea saw, a wheelbarrow and a shaduf are examples of lever mechanisms • Structures and materials to make levers and sliders in moving pictures strong, stiff and stable • A slider has a bar but does not use a pivot • Designing means planning how something is going to look and work • When we design a product we need to think about who will use it, what it is for, and what it will look like • Properties of materials are things we can measure, see or feel and effect how we use materials 	<ul style="list-style-type: none"> • Sewing is a way to make objects from fabric • To understand how to create a design • Clothes and pencil cases can be made from fabric • Sewing is a way to join fabric together • A needle and thread are used to make stitches • When designing a product we need to think about who will use it, its function and its appearance • Running stitch can be used for joining two pieces of fabric together, creating a seam • A feature stitch is a stitch which we can see and can be used to decorate something 	<ul style="list-style-type: none"> • Pizza comes from Naples in Italy • It was a cheap food which was sold and eaten in the streets • It is made from savoury dough which is kneaded and rolled flat before it is baked
<p>Teir 2 vocabulary</p> <p>These should be taken from the Vocabulary section of any Session plans</p>	<p>Lever Pivot Bar Force Effect Load Slider Slot</p>	<p>Design Materials Suitable Properties Sew Fastening Fabric Needle</p>	<p>Home made Processed Savoury Dough Knead Recipe Slice Chopping board</p>

<p>that include one, but only the Teir 2 should be used.</p>	<p>Bridge Motion Materials Properties Design User Function Appearance Cutting Joining Decorating Finishing</p>	<p>Thread Stitch Threading Decoration Template</p>	<p>Preserve Italy Baking Flour</p>
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Year 3

	Pop up books	Sewing pencil cases	Cooking bread and butter
<p>Knowledge Goals</p> <p>These should be taken from the Knowledge Goal section of any Session plans that include them</p>	<ul style="list-style-type: none"> Levers can be joined together to form linkages Linkages are used to change direction of motion Linkages have fixed and moving pivots Designing means planning and drawing what a product will look like and how it will work When designing a product we need to think carefully about the materials we will use. 	<ul style="list-style-type: none"> Fabric can be made from natural or synthetic materials Wool from sheep and cotton from plants are examples of natural materials Felt is made by pressing materials together When designing a product we need to think about who will use it, its function and aesthetic appeal Running stitch and backstitch can be used for joining two pieces of fabric together Backstitch is stronger than running stitch 	<ul style="list-style-type: none"> Wheat makes flour which can be made into bread Cows are milked by farmers to provide us with milk which is a dairy product Milk can be made into cream, butter, cheese and yoghurt

	<ul style="list-style-type: none"> When designing a product we need to think about who will use it, its function and aesthetic appeal 		
<p>Teir 2 vocabulary</p> <p>These should be taken from the Vocabulary section of any Session plans that include one, but only the Teir 2 should be used.</p>	Mechanism Component Lever Pivot Bar Slider Slot Force Motion Reverse Parallel Prototype Rotation Design Materials Stiff User Function	Needle Thread Sew Fabric Stitch Natural Weaving Felt User Purpose Function Seam Knot Template Pinning	Bread Wheat Grain Flour Rise Butter Yeast Churn Knead Bake Dairy Milk Cream Butter Recipe Slicing Spreading

Year 4

	Sewing cushions	Moving parts – playgrounds	Cooking Ratatouille
<p>Knowledge Goals</p> <p>These should be taken from the Knowledge Goal section of any Session</p>	<ul style="list-style-type: none"> Appliqué is a technique where pictures or patterns made from fabric are sewn onto a background Appliqué is a very old sewing technique and 	<ul style="list-style-type: none"> Gears are wheels with teeth which interlock A drive gear transfers motion to a driven gear A bicycle uses gears to change the speed at which it travels 	<ul style="list-style-type: none"> Vegetables are part of a healthy diet The vegetables we eat come from different parts of a plant Ratatouille is a French dish made from stewed vegetables

<p>plans that include them</p>	<p>was used by the ancient Egyptians</p> <ul style="list-style-type: none"> • Examples of appliqué were found in the tomb of Tutankahmun • Fabric is made from different materials (e.g. wool/cotton) and in different ways (e.g. pressing/weaving) • Running stitch and backstitch can be used for joining two pieces of fabric together • Overcast stitch (or whipstitch) can be used for appliqué or for joining two pieces of fabric together 	<ul style="list-style-type: none"> • Designing means planning and drawing what a product will look like and how it will work • When designing a product we need to think carefully about the materials we will use. • When designing a product we need to think about who will use it, its function and aesthetic appeal 	
<p>Teir 2 vocabulary</p> <p>These should be taken from the Vocabulary section of any Session plans that include one, but only the Teir 2 should be used.</p>	<p>Needle Thread Sew Decoration Fabric Stitch Felt Natural Woven User Purpose Function Pinning Stuffing</p>	<p>Mechanism Component Wheel Axle Gear Teeth Interlock Motion Design Materials Stiff Stable Vertical Horizontal Circuit Electrical</p>	<p>France Ratatouille Stew Vegetable Root Stem Leaf Fruit Seed Flower</p>

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Year 5

	Cam toys	Cooking Pitta Bread	Sewing bags
Knowledge Goals These should be taken from the Knowledge Goal section of any Session plans that include them	<ul style="list-style-type: none"> • A cams mechanism transfers rotary motion to linear motion • The different parts of a cams mechanism are a cam, a follower, a slider and a camshaf • Cams mechanisms were used by Ismail al-Jazari in the Islamic Golden Age • Different shaped cams cause the follower to move up and down in a different way • An eccentric cam moves up and down at a constant rate • When designing a product we need to think about who will use it, its function and aesthetic appeal 	<ul style="list-style-type: none"> • There are many different types of bread, which is usually made from wheat • Wheat is processed to make flour • Bread can be made using yeast which makes it rise 	<ul style="list-style-type: none"> • Appliqué and embroidery can be used to decorate fabric • Appliqué is a technique where pictures or patterns made from fabric are sewn onto a background • Embroidery is a technique where pictures or patterns are made by stitches on fabric • Backstitch can be used for joining two pieces of fabric together to make a seam or a hem • Overcast stitch (or whipstitch) can be used for appliqué • Lots of different stitches can be used for embroidery like backstitch, running stitch and cross stitch
Teir 2 vocabulary	Mechanism component follower slider	pitta Flatbread Wheat Grain	Decoration Embroidery Fabric Materials

<p>These should be taken from the Vocabulary section of any Session plans that include one, but only the Teir 2 should be used.</p>	<p>motion Structure Materials User Purpose Function</p>	<p>Yeast bake Recipe Cooling rack</p>	<p>Properties Leather Canvas Cotton Plait Cord Natural Synthetic Woven Fray Hem Seam Backstitch User Purpose/function</p>
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Year 6

	Cooking - mezze	Electric toys	Sewing - upcycling
<p>Knowledge Goals</p> <p>These should be taken from the Knowledge Goal section of any Session plans that include them</p>	<ul style="list-style-type: none"> • ‘Mezze’ is a name for a selection of small, savoury dishes which people can share • Mezze are cooking in countries such as Greece, Bulgaria, Turkey, Iran and Iraq • A mezze is an example of a balanced meal • Herbs and spices can provide a dish with powerful flavours • Herbs and spices can be fresh or dried 	<ul style="list-style-type: none"> • Designing means planning and drawing what a product will look like and how it will work • When designing a product we need to think carefully about the materials we will use. • When designing a product we need to think about who will use it, its function and aesthetic appeal 	<ul style="list-style-type: none"> • ‘Fast fashion’ means the design, manufacturing and selling of clothes focussed on producing a very large number of clothes cheaply • Upcycling means using an old, disused item to make a new one • Some clothes manufacturers and designers try to use methods and resources which are environmentally friendly and do not create pollution • Backstitch can be used for joining two pieces of fabric

	<ul style="list-style-type: none"> • Examples of herbs are mint and parsley. Example of spices are cumin and cinnamon 		<p>together to make a seam or a hem</p> <ul style="list-style-type: none"> • Appliqué and embroidery can be used to decorate fabric • Overcast stitch (or whipstitch) can be used for appliqué and lots of different stitches can be used for embroidery like backstitch, running stitch and cross stitch •
<p>Teir 2 vocabulary</p> <p>These should be taken from the Vocabulary section of any Session plans that include one, but only the Teir 2 should be used.</p>	<p>Mezze Savoury Recipe Seasoning Grating Mashing Herbs Spices</p>	<p>electrical circuit component parts Bulb Battery Switch Design Materials Stiff/stable User Purpose/function Cutting Joining Decorating Finishing</p>	<p>Upcycle Recycle Waste Pollution ‘fast fashion’ Sustainable Fray Hem Seam Decoration Embroidery Running stitch Pinning User purpose/ function Generate Innovate Plaiting Threading</p>