Lake	Lower Woodford	Netton	End of KS	Wilsford	Durnford	Upper Woodford	Salteron	End of KS
Reception	Year 1	Year 2	expectations	Year 3	Year 4	Year 5	Year 6	expectations
Autumn Term Included in provision – open ended resources Supported by DATA Planning	Autumn Term DT is included in continuous provision Brunell Day (Topic link) Supported by DATA	Autumn Term DT day – Mars Rovers (Topic link) STEM related problem solving – how to stop a cross		Shadow puppets (Science link) Design a game using a BBC micro:bit (Computing link) Supported by DATA Planning – Electrical	Autumn Term Food Technology Supported by DATA Planning - Food Design and make a Poison Dart frog	Autumn Term <u>Food Technology</u> Supported by DATA Planning - Food Design a chocolate bar wrapper	Autumn Term Food Technology Supported by DATA Planning - Food Make a Christmas Tree using electrical	
	Supported by DATA Planning – Freestanding structures	Ianding? (Topic link) Supported by DATA Planning – Wheels and axels		systems – simple programming and control	(Topic link) Supported by DATA Planning – "D shape to 3D product	(Topic link)	(Science link) Supported by DATA Planning – Electrical systems – monitoring and control	
Spring Term Included in provision – open ended resources Supported by DATA Planning	Spring Term Welly walk challenge - building an owl's nest using natural materials (Topic and Science link) Making bird feeders (Science link) Easter Cards with sliders (RE link) Supported by DATA Planning – Mechanisms and sliders	Spring Term Castles with moving drawbridges. (Topic link) Trebuchets (Topic link) Making bags to store the gold (Science link) Supported by DATA Planning – Textiles, templates and joining techniques		Spring Term Food Technology Supported by DATA Planning - Food Package and post a Pringle – product design. Supported by DATA Planning – shell structures	Spring Term Create a photo frame from recycled materials. (Topic link)	Spring Term Make a Tudor purse using CAD. (Topic link) Supported by DATA Planning – Combining different fabric shapes	Spring Term Pop up greetings card using paper engineering	
Summer Term Food Technology Supported by DATA Planning - Food	Summer Term <u>Food Technology</u> Supported by DATA Planning - Food Tippy Tap Challenge – ways to transport water. (Global link)	Summer Term Food Technology Supported by DATA Planning - Food Create seagulls with moving parts. (Topic link) How to stop an ice lolly melting.		Summer Term Make a pneumatic dinosaur. (Topic link) Supported by DATA Planning - Food Making emergency shelters. (Topic link)	Summer Term Make a page from a moving picture book using sliders and other mechanisms. (Topic link) Supported by DATA Planning – Levers and linkages	Summer Term Design and build a model of a children's playground, exploring structures. Supported by DATA Planning – Frame structures	Summer Term Design and make a fete game – real life project which will be tested at the school fete. Supported by DATA Planning – Mechanical systems	

		Design and make a	(Science link)		Recycled materials				
		Design and make a	(Science link)		Recycled materials				
		weather recording			tashion show				
		instrument			(Environmental link)				
		(Science link)							
	*Select appropriate	* Have own ideas	* Have own ideas and	*Design purposeful,	*Begin to research	* Use research for design ideas	*Use internet and	* Draw on market	*Use research and
	resources	* Explain what I want to	plan what to do next	functional,	others' needs	* Show design meets a range of	questionnaires for	research to inform	develop design
	*Use gestures, talking	do	* Explain what I want to	appealing products	* Show design meets a	requirements and is fit for	research and design	design * use research of	criteria to inform
	and arrangements of	*Explain what my	do and describe how I	for themselves and	range of requirements	purpose	ideas	user's individual needs,	the design of
	materials and	product is for, and how it	may do it	other users based	* Describe purpose of	*Begin to create own design	*Take a user's view into	wants, requirements for	innovative,
	components to show	will work	* Explain purpose of	on design criteria	product	criteria	account when designing	design	functional,
	design	* Use pictures and words	product, how it will work	*Generate, develop,	* Follow a given design	*Have at least one idea about	* Begin to consider	* Identify features of	appealing products
	* Use contexts set by	to plan, begin to use	and how it will be	model and	criteria	how to create product and	needs/wants of	design that will appeal to	that are fit for
	the teacher and myself	models	suitable for the user	communicate their	* Have at least one idea	suggest improvements for	individuals/groups when	the intended user	purpose, aimed at
	*Use language of	* Design a product for	* Describe design using	ideas through	about how to create	design.	designing and ensure	* Create own design	particular
	designing and making	myself following design	pictures, words, models,	talking, drawing,	product	* Produce a plan and explain it	product is fit for purpose	criteria and specification	individuals or
	(join, build, shape,	criteria	diagrams, begin to use	templates, mock	* Create a plan which	to others	*create own design	* come up with	groups
	longer, shorter, heavier	*Research similar	ICT	ups and, where	shows order, equipment	*Say how realistic plan is.	criteria	innovative design ideas	*Generate, develop,
	etc.)	existing products	* Design products for	appropriate,	and tools	*Include an annotated sketch	* Have a range of ideas	*Follow and refine a	model and
			myself and others	information and	*Describe design using	*Make and explain design	*produce a logical,	logical plan.	communicate their
			following design criteria	communication	an accurately labelled	decisions considering	realistic plan and explain	*Use annotated	ideas through
			* Choose best tools and	technology	sketch and words	availability of resources	it to others.	sketches, cross sectional	discussion,
			materials, and explain		* Make design decisions	*explain how product will work	*Use cross-sectional	planning and exploded	annotated sketches,
			choices		*explain how product	* Make a prototype *begin to	planning and annotated	diagrams	cross sectional and
			* Use knowledge of		will work	use computers to show design.	sketches	* Make design decisions,	exploded diagrams,
			existing products to		* Make a prototype		* Make design decisions	considering, resources	prototypes, pattern
			produce ideas		* Begin to use computers		considering time and	and cost	pieces and
					to show design		resources.	* Clearly explain how	computer aided
							*Clearly explain how	parts of design will work,	design
							parts of product will	and how they are fit for	
							work.	purpose	
							*Model and refine	* Independently model	
_							design ideas by making	and refine design ideas	
20							prototypes and using	by making prototypes	
ŝŝi							pattern pieces.	and using pattern pieces	
ă							*Use computer-aided	* Use computer-aided	
							designs	designs	

	*Construct with a	*Explain what I'm	*Explain what I am	*Select from and	*Select suitable	* Select suitable tools and	* Use selected	* Use selected tools and	*Select from and
	purpose, using a	making and why	making and why it fits	use a range of tools	tools/equipment. explain	equipment, explain choices in	tools/equipment with	equipment precisely	use a wider range of
	variety of resources	*Consider what I need to	the purpose	and equipment to	choices; begin to use	relation to required techniques	good level of precision	*produce suitable lists of	tools and
	*Use simple tools and	do next	*Make suggestions as to	perform practical	them accurately	and use accurately	* Produce suitable lists	tools, equipment,	equipment to
	techniques	*Select tools/equipment	what I need to do next.	tasks [for example,	* Select appropriate	*Select appropriate materials,	of tools,	materials needed,	perform practical
	*Build / construct with	to cut, shape, join, finish	*Join	cutting, shaping,	materials, fit for	fit for purpose; explain choices	equipment/materials	considering constraints	tasks [for example,
	a wide range of objects	and explain choices	materials/components	joining and	purpose.	* Work through plan in order.	needed	* Select appropriate	cutting, shaping,
	*Select tools &	*Measure, mark out, cut	together in different	finishing]	* Work through plan in	* Realise if product is going to	*Select appropriate	materials, fit for	joining and
	techniques to shape,	and shape, with support	ways	*Select from and	order	be good quality	materials, fit for	purpose; explain choices,	finishing],
	assemble and join	*Choose suitable	*Measure, mark out, cut	use a wide range of	*Consider how good	* Measure, mark out, cut and	purpose; explain choices,	considering functionality	accurately
	*Replicate structures	materials and explain	and shape materials and	materials and	product will be	shape materials/components	considering functionality	and aesthetics	*Select from and
	with materials /	choices	components, with	components,	* Begin to measure,	with some accuracy	* create and follow	* Create, follow, and	use a wider range of
	components	*Try to use finishing	support.	including	mark out, cut and shape	*Assemble, join and combine	detailed step by-step	adapt detailed step-by-	materials and
	*Discuss how to make	techniques to make	*Describe which tools	construction	materials/components	materials and components with	plan	step plans	components,
	an activity safe and	product look good	I'm using and why	materials, textiles	with some accuracy	some accuracy	* Explain how product	*Explain how product	including
	hygienic	*Work in a safe and	*Choose suitable	and ingredients,	* Begin to assemble, join	*Apply a range of finishing	will appeal to an	will appeal to audience;	construction
	*Record experiences	hygienic manner	materials and explain	according to their	and combine materials	techniques with some accuracy	audience	make changes to	materials, textiles
	by drawing, writing,		choices depending on	characteristics	and components with		* Mainly accurately	improve quality	and ingredients,
	voice recording		characteristics.		some accuracy		measure, mark out, cut	* Accurately measure,	according to their
	*Understand different		*Use finishing		* Begin to apply a range		and shape	mark out, cut and shape	functional
	media can be		techniques to make		of finishing techniques		materials/components	materials/components	properties and
	combined for a		product look good		with some accuracy		*mainly accurately	* Accurately assemble,	aesthetic qualities
	purpose		*Work safely and				assemble, join and	join and combine	
			hygienically				combine	materials/components	
							materials/components	* Accurately apply a	
							* Mainly accurately apply	range of finishing	
							a range of finishing	techniques	
							techniques	* Use techniques that	
							* Use techniques that	involve a number of	
e U							involve a small number	steps	
ak							of steps	* Be resourceful with	
Ξ							* Begin to be resourceful	practical problems	
							with practical problems		

Technical Knowledge		*Begin to measure and join materials, with some support *Describe differences in materials *Suggest ways to make material/product stronger *Measure, cut and join to make a product, with some support *Begin to use levers or slides	*Measure materials *Describe some different characteristics of materials *Join materials in different ways *Use joining, rolling or folding to make it stronger *Use own ideas to try to make product stronger *Choose suitable textiles *Begin to understand how to use wheels and axles *Measure textiles *Join textiles together to make a product, and explain how I did it *Carefully cut textiles to produce accurate pieces *Explain choices of textile *Understand that a 3D textile structure can be made from two identical fabric shapes.	*Use appropriate materials *Work accurately to make cuts and holes * Join materials *begin to make strong structure *Select appropriate tools / techniques *Alter product after checking, to make it better *Begin to try new/different ideas *use simple lever and linkages to create movement join different textiles in different ways *Choose textiles considering appearance and functionality *Begin to understand that a simple fabric shape can be used to make a 3D textiles project	*Use appropriate materials *Work accurately to make cuts and holes * Join materials *Begin to make strong structures *Select appropriate tools / techniques *Alter product after checking, to make it better *Begin to try new/different ideas *Use simple lever and linkages to create movement *Join different textiles in different ways *Choose textiles considering appearance and functionality *Begin to understand that a simple fabric shape can be used to make a 3D textiles project * use pneumatics to create movement	*Measure carefully to avoid mistakes *Attempt to make product strong *Continue working on product even if original didn't work *Make a strong, stiff structure *Select most appropriate tools / techniques *Explain alterations to product after checking it *Grow in confidence about trying new / different ideas. *Use levers and linkages to create movement *Think about user when choosing textiles *Think about ser when choosing textiles *Think about how to make product strong * Begin to devise a template *Explain how to join things in a different way *Begin to understand that a single 3D textiles project can be made from a combination of fabric shapes.	*Select materials carefully, considering intended use of the product, the aesthetics and functionality. *Explain how product meets design criteria *Refine product after testing, considering aesthetics, functionality and purpose *Be confident to try new / different ideas *Think about user's wants/needs and aesthetics when choosing textiles *Make product attractive and strong *Make a prototype *Use a range of joining techniques *Think about how product might be sold *Think carefully about what would improve product	*Select materials carefully, considering intended use of the product, the aesthetics and functionality. *Explain how product meets design criteria *Refine product after testing, considering aesthetics, functionality and purpose *Be confident to try new / different ideas * Create movement *Make product attractive and strong *Make a prototype *Use a range of joining techniques *Think about how product might be sold *T carefully about what would improve product	*Begin to measure and join materials, with some support *Describe differences in materials *Suggest ways to make material/product stronger *Begin to use levers or slides *Measure, cut and join textiles to make a product, with some support *Choose suitable textiles
	*Begin to understand some food preparation tools, techniques and processes. *Begin to use scissors to cut. *Practise stirring, mixing, pouring, blending and sifting *Measuring with help *Cracking and beating an egg with help *Discuss how to make an activity safe and hygienic *Understand the need for variety in food *Talk about where ingredients come from - link to school garden	*Describe textures *Wash hands & clean surfaces *Think of interesting ways to decorate food *Name basic equipment and ingredients *Say where some foods come from, (i.e. plant or animal) *Describe differences between some food groups (i.e. sweet, vegetable etc.) *Discuss how fruit and vegetables are healthy *Cut, peel and grate safely, with support *Begin to follow instructions * Understand that some ingredients are seasonal	*Explain hygiene and keep a hygienic kitchen *describe properties of ingredients and importance of varied diet *Say where food comes from (animal, underground etc.) – link to school garden *Describe how food is farmed, home-grown, caught *draw Eat Well Plate; explain there are groups of food *Describe "five a day" *Cut, peel and grate with increasing confidence	*Use the basic principles of a healthy and varied diet to prepare dishes *Understand where food comes from.	*Carefully select ingredients *Use equipment safely *make product look attractive *think about how to grow plants to use in cooking *Begin to understand food comes from UK and wider world *Describe how healthy diet= variety/balance of food/drinks *Explain how food and drink are needed for active/healthy bodies. *Prepare and cook some dishes safely and hygienically *Grow in confidence using some of the following techniques: peeling, chopping using the bridge technique, slicing, grating, mixing, spreading, kneading and baking	*Explain how to be safe/hygienic *Think about presenting product in interesting/ attractive ways *understand ingredients can be fresh, pre-cooked or processed *Begin to understand about food being grown, reared or caught in the UK or wider world *Describe eat well plate and how a healthy diet=variety / balance of food and drinks *Explain importance of food and drink for active, healthy bodies *Prepare and cook some dishes safely and hygienically *Use some of the following techniques: peeling, grating, mixing, spreading, kneading and baking *Confidently use the bridge technique to chop *Safely use a sharp knife to chop and slice	*Explain how to be safe / hygienic and follow own guidelines *Present product well – it should be interesting, attractive, fit for purpose *Begin to understand seasonality of foods *Understand food can be grown, reared or caught in the UK and the wider world *Describe how recipes can be adapted to change appearance, taste, texture, aroma *Explain how there are different substances in food / drink needed for health *Prepare and cook some savoury dishes safely and hygienically including, where appropriate, use of heat source * Use range of techniques such as peeling, chopping,	*Understand a recipe can be adapted by adding / substituting ingredients *Explain seasonality of foods *Learn about food processing methods *Name some types of food that are grown, reared or caught in the UK or wider world *Adapt recipes to change appearance, taste, texture or aroma. *Describe some of the different substances in food and drink, and how they can affect health *Prepare and cook a variety of savoury dishes safely and hygienically including, where appropriate, the use of heat source. *Use a range of techniques confidently such as peeling,	*Understand and apply the principles of a healthy and varied diet *Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques *Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

Technology				slicing, grating, mixing, spreading, kneading and baking. *Use the hob safely *Work independently when possible	chopping, slicing, grating, mixing, spreading, kneading and baking. *Work independently *Recognise and collect the equipment and ingredients needed	
owledge – Food						
Technical Kn						