	Term	Term	Term
EYFS	Autumn	Spring	Summer
Knowledge	 Model with construction kits Junk Modelling – joining with tape/glue and embellish 	 Weaving with paper Junk Modelling – flanges and hinges 	 Sewing – bookmarks Junk Modelling – moving parts
Skill Progression	Use wooden blocks and duplo in construction.	Use stickle bricks and train track for construction.	Use lego and Kapla bricks for construction.
	 Physical Development: Use a range of tools including big paint brushes and crinkly scissors. Expressive Arts and Design: Safely use a variety of materials to experiment with colour and design. Use glue, tape, paint and a range of embellishments in junk modelling. 	 Physical Development: Use a range of small tools, including scissors and paintbrushes. Expressive Arts and Design: Safely use a variety of materials to experiment with colour, design and <i>texture</i>. Use glue, tape, paint and a range of embellishments in junk modelling. To use cardboard to make flanges and hinges. 	 Physical Development: Use a range of small tools – including needles for sewing. Expressive Arts and Design: Safely use a variety of materials to experiment with colour, design, texture, form and function To use cardboard/paper and split pins to make movable parts.
Metacognition/ Classroom discussion		Cognitive task analysis	Jigsaw method
Year 1	Autumn	Spring	Summer
Knowledge	 Construction/mechanisms To know about the simple working characteristics of materials and components To know about movement of simple mechanisms such as levers, sliders, wheels and axels. 	 Textiles To know how to join fabrics with glue. To understand the properties of different fabrics. 	 Food technology To know how to use different kitchen equipment safely. To know that all food comes from plants or animals To know that everyone should eat at least five portions of fruit and vegetables every day.

Skill Progression	 Generating Ideas Think of own ideas for design. Use pictures and words to plan. Design a product for myself, following des Making Explain what is being made and why. Select appropriate tools and equipment for Evaluating Talk about pre-existing products, saying w Say whether their product does what it is 	or the purpose.	wed.	
	 Construction/mechanisms Use sheet materials and construction tools with appropriate supervision – various junk modelling equipment, scissors and glue/tape. 	 Textiles Cut, and then join textiles using glue. Decorate using a range of items (buttons, sequins, beads, ribbons etc), using glue. 	 Food technology Know how to peel, cut, grate, mix and mould foods (with close supervision). 	
Metacognition	Classroom discussion	Cognitive task analysis	Jigsaw method	
Year 2	Autumn	Spring	Summer	
Knowledge	 Construction/mechanisms To know about the movement of simple mechanisms such as levers, sliders, wheels and axles To know how freestanding structures can be made stronger, stiffer and more stable 	 Food technology To know that food ingredients should be combined according to their sensory characteristics To know that food has to be farmed, grown elsewhere (e.g. home) or caught. To how to name and sort foods into the five groups in The Eatwell Plate. 	 Textiles To know that a 3-D textiles product can be assembled from two identical fabric shapes To know how to complete a simple running stitch or over sewing. 	
Skill Progression	 Generating Ideas Think of own ideas and pan what to do next. Describe designs using pictures, diagrams, models, mock-ups, words and ICT. Design a product for myself and others, following design criteria. Making Explain what is being made and why the audience will like it. Choose appropriate tools and equipment, describing and explaining why they ate being used. 			

	 Evaluating Describe how their own and pre-existing products work, evaluating what went well and what could be done differently. Suggest what went well and what would be done differently when evaluating their own product. 			
	 Construction/mechanisms Use sheet materials and construction tools with appropriate supervision - cardboard, scissors and glue/tape. 	 Food Technology Know how to peel, cut, grate, mix and mould foods (with supervision). 	 Textiles Cut, then join textiles using a simple running stitch or over sewing. Decorate using a range of items (buttons, sequins, beads, ribbons etc). 	
Metacognition	Classroom discussion	Cognitive task analysis	Jigsaw method	
Year 3	Autumn	Spring	Summer	
Knowledge	 To know how to handle hot foods and equipment (toasters/microwaves) safely. To know how to use saws safely. 			
Skill Progression	Generating Ideas • Create a design that meets a range of requirements. • Consider the equipment and tools needed when planning • Describe a design using an accurately labelled diagram, and in words. Making • Use a range of tools and equipment accurately. • Measure, mark out, assemble and join materials and components with accuracy.			
	 Evaluate own and pre-existing products. Suggest what could be changed to improve a design, beginning to link this to the design brief. 			
	Food Technology	Construction/mechanisms	Textiles	

	 Know how to peel, cut, grate, mix, mould and begin to cook foods (using toasters and microwaves with supervision). 	 Use sheet materials and construction tools with appropriate supervision – wood, saws, glue/tape. 	 Cut, then join textiles using a running stitch, over sewing, back stitch or fastenings. 		
Metacognition	Classroom discussion	Cognitive task analysis	Jigsaw method		
Year 4	Autumn	Spring	Summer		
Knowledge	 Construction/mechanisms To know about movement of simple mechanisms such as levers and linkages. To know how to use a glue gun safely. To know how to make strong, stiff shell structures. 	 Textiles To know that a single fabric shape can be used to make a 3D textiles product To understand about different decoration techniques (e.g. applique). 	 Food technology To know that food ingredients can be fresh, pre-cooked and processed To know that to be active and healthy, food and drink are needed to provide energy for the body. 		
Skill Progression	 Generating Ideas Generate more than one idea for how to create a product. Gather information to help design a successful product (e.g. asking others' views). Produce a detailed plan with labelled diagrams, a written explanation and a step-by-step guide. Suggest improvements to develop and refine a planned idea. 				
	 Making Use a range of tools and equipment with accuracy. Measure, mark out, join, assemble materials and components with accuracy. 				
	 Evaluating Evaluate the appearance and usability of own and pre-existing products. Explain how the original design could be improved, considering the appearance and usability and linking this to the design brief. 				
	 Food Technology Know how to peel, cut, grate, mix, mould and begin to cook foods (using toasters and microwaves with supervision). 	 Textiles Cut, then join textiles using a running stitch, over sewing, back stitch or fastenings. To create simple patterns and appropriate decoration techniques (e.g. applique). 	 Construction/mechanisms Use sheet materials and construction tools with appropriate supervision – wood, saws, glue (inc glue guns with support)/tape. 		
Metacognition	Classroom discussion	Cognitive task analysis	Jigsaw method		
Year 5	Autumn	Spring	Summer		
Knowledge	TextilesTo know how to use a fabric pattern.	Construction/mechanisms	 Food technology To know how to use an oven safely. 		

	 To understand the importance of pinning and tacking fabrics. 	 To know how mechanical system such as cams, pulleys or gears create movement. To know how to use hammers and nails safely. To know how to reinforce and strengthen a 3D framework. 	 To know that seasons may affect the food available. To know that different food and drink contain different substances – nutrients, water and fibre – that are needed for health
	Suggest alternative plans, considering the	instructions, cross sectional diagrams and prototypes.	
	 Making Use a range of tools and equipment experi- Consider the aesthetic qualities and function 		
		a product (own and pre-existing) against the original criter e, considering materials and methods that have been used	
	 Pin and tack fabrics, use patterns and seam allowances and join fabrics to make products. 	 Construction/mechanisms Use sheet materials and construction tools with appropriate supervision – wood, saws, nails, hammers. 	 Food Technology Cut, mix, mould and use ovens to heat food, with appropriate supervision.
Metacognition	Classroom discussion	Cognitive task analysis	Jigsaw method
Year 6	Autumn	Spring	Summer
Knowledge	 To know that a 3D textiles product can be made from a combination of fabric shapes. 	 Construction/mechanisms To know how mechanical system such as cams, pulleys or gears create movement. To know that mechanical and electrical systems have an input, process and output. To know how simple electrical circuits and components can be used to create functional 	 Food technology To know how to use a hob safely. To know that a recipe can be adapted by adding or substituting one or more ingredients. To know how food is processed into ingredients that can be eaten or used in cooking. To know that recipes can be adapted to change
		 To know how to use saws, hammers, drills, nails and screws safely. 	the appearance, taste, texture and aroma.

 Use a range of 	f information to inforn	n design (e.g. market res	earch using surveys, intervie	ews, questionnaires or web-b	ased resources).
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- Produce a detailed plan, with cross-sectional diagrams and computer generated designs.
- Work within constraints, refining and justifying plans as necessary.

Making

- Use a range of tools and equipment precisely.
- Consider the aesthetic qualities and functionality of my product as making it, refining details as necessary.

Evaluating

- Evaluate the appearance and test the function of a product (own and pre-existing) against the original criteria, saying whether it is fit for purpose.
- Suggest improvements that could be made, considering materials, methods, sustainability of the product and how much a product costs to make.

		 Pin and tack fabrics, use patterns and seam allowances and join fabrics to make quality products. 	 Construction/mechanisms Use sheet materials and construction tools with appropriate supervision – wood, saws, hammers, drills, nails and screws. To use simple electrical circuits and components in the product. 	 Food Technology Cut, mix, mould and use hobs to heat food, developing independence with this as appropriate.
L	Metacognition	Classroom discussion	Cognitive task analysis	Jigsaw method