



Whaley Thorns Primary School and Nursery

Design and Technology Progression Grid

	Foundation Year One	Year One Year Two	Year Three Year Four	Year Four Year Five	Year Five Year Six
Design	<ul style="list-style-type: none"> -Notice DT elements in a range of books -Say something that they are going to make -Choose materials for a specific purpose - Generate ideas and design products for a purpose, sharing these with others (via drawings or discussion) 	<ul style="list-style-type: none"> - Generate ideas and design products for a purpose, sharing these with others (via drawings or discussion) 	<ul style="list-style-type: none"> - Use research and develop design criteria to inform the design of innovative, appealing, functional products - Use annotated sketches to communicate this 	<ul style="list-style-type: none"> - Use a set of design criteria to develop a suitable enterprise product aimed at a certain group - Use cross sectional, exploded diagrams, prototypes, pattern pieces and Computer Aided Design 	<ul style="list-style-type: none"> - Use a set of design criteria to develop a suitable enterprise product aimed at a certain group - Use cross sectional, exploded diagrams, prototypes, pattern pieces and Computer Aided Design
Make	<ul style="list-style-type: none"> -Fold, tear and stick paper in different ways -Use scissors accurately -Use a variety of methods to attach paper – pva glue, pritt stick, sellotape, blu tack, treasury tags, elastic bands, split pins -Use a hole punch accurately -Begin to use simple flaps and sliders -Use paper for weaving -Use a hammer and nails to fasten wood together - Make a variety of different imaginative designs out of a range of construction materials - Refine fine motor skills, e.g. threading, tracing, cutting - Cut and join materials - Create a card with simple levers or sliders 	<ul style="list-style-type: none"> - Make a variety of different imaginative designs out of a range of construction materials - Refine fine motor skills, e.g. threading, tracing, cutting - Cut and join materials - Create a card with simple levers or sliders 	<ul style="list-style-type: none"> - Use reclaimed/ recycled materials to make a structure - Demonstrate how to join materials to make a simple lever slider for a pop-up book/card - Select from and use a wider range of tools and equipment to perform practical tasks (cutting, shaping, joining and finishing), accurately - Apply knowledge of simple electrical circuits (including buzzers, batteries and bulbs) for a specific purpose - Use a range of stitching techniques to practise sewing 	<ul style="list-style-type: none"> - Use reclaimed/ recycled materials to make a structure - Demonstrate how to join materials to make a simple lever slider for a pop-up book/card - Select from and use a wider range of tools and equipment to perform practical tasks (cutting, shaping, joining and finishing), accurately - Apply knowledge of simple electrical circuits (including buzzers, batteries and bulbs) for a specific purpose - Use a range of stitching techniques to practise sewing - Investigate and make a simple pulley system - Use a range of stitches to join (with a focus on the appearance and consistency of stitches) - Select from and use a wider range of materials, tools and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities 	<ul style="list-style-type: none"> - Investigate and make a simple pulley system - Use a range of stitches to join (with a focus on the appearance and consistency of stitches) - Select from and use a wider range of materials, tools and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities
Evaluate	<ul style="list-style-type: none"> -Say something about the use of paper in published books -Show resilience when encountering problems. -Say something positive about what they have made -Suggest an improvement to their work - Evaluate own ideas 	<ul style="list-style-type: none"> - Evaluate own ideas 	<ul style="list-style-type: none"> - Disassemble packaging (to look at nets and shapes) and apply this knowledge to make their own packaging - Look at a range of ways of adding strength to a structure - Evaluate and improve own work and suggest changes 	<ul style="list-style-type: none"> - Disassemble packaging (to look at nets and shapes) and apply this knowledge to make their own packaging - Look at a range of ways of adding strength to a structure - Evaluate and improve own work and suggest changes - Test out a range of decorative finishing techniques to decide which is most effective 	<ul style="list-style-type: none"> - Test out a range of decorative finishing techniques to decide which is most effective - Demonstrate triangulation and understand how triangles add strength - Critically evaluate and improve own work, suggesting changes

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Technical Knowledge	<ul style="list-style-type: none"> -Use specific words when manipulating paper -Use specific words when joining materials -Begin to understand how skills can be related to adult jobs - Build a structural mechanism using large scale construction and then improve it (make it stiffer/ stronger) - Explore and use mechanisms (levers, sliders, wheels, and axles) 	<ul style="list-style-type: none"> - Build a structural mechanism using large scale construction and then improve it (make it stiffer/ stronger) - Explore and use mechanisms (levers, sliders, wheels, and axles) 	<ul style="list-style-type: none"> - Generate, develop, model and communicate ideas through talking, drawing and devising mock ups 	<ul style="list-style-type: none"> - Generate, develop, model and communicate ideas through talking, drawing and devising mock ups - Understand different input and output processes - Generate, develop, model and communicate ideas through talking, drawing, devising mock ups and where appropriate using computing 	<ul style="list-style-type: none"> - Understand different input and output processes - Generate, develop, model and communicate ideas through talking, drawing, devising mock ups and where appropriate using computing
Cooking and Nutrition	<ul style="list-style-type: none"> -Understand how to make simple baking items. -Know that there are many different types of food around the world -Can name some healthy foods -Begin to peel, cut and spread food items with support -Talk about the eat well plate and suggest healthy food swaps - Safely cut, chop, peel and spread a range of food items - Evaluate an existing food product and plan and make a similar food product (showing awareness of food health, safety and hygiene) using relevant tools and materials - Discuss where different foods come from (plants and animals- farmed, grown, caught) 	<ul style="list-style-type: none"> -Talk about the eat well plate and suggest healthy food swaps - Safely cut, chop, peel and spread a range of food items - Evaluate an existing food product and plan and make a similar food product (showing awareness of food health, safety and hygiene) using relevant tools and materials - Discuss where different foods come from (plants and animals- farmed, grown, caught) 	<ul style="list-style-type: none"> - Plan, prepare and cook savoury and sweet dishes (building on knowledge of food health, safety and hygiene) - Demonstrate a range of cooking techniques- chopping, kneading, grating, mixing etc - Research different food products and where they are grown, farmed and caught 	<ul style="list-style-type: none"> - Plan, prepare and cook savoury and sweet dishes (building on knowledge of food health, safety and hygiene) - Demonstrate a range of cooking techniques- chopping, kneading, grating, mixing etc - Research different food products and where they are grown, farmed and caught - Demonstrate an understanding of the importance for correct preparation and cooking of raw meat (to be modelled by the teacher) - Create, plan, prepare and cook a healthy evening meal using a heat source - Demonstrate a range of cooking techniques- chopping, kneading, grating, mixing etc 	<ul style="list-style-type: none"> - Demonstrate an understanding of the importance for correct preparation and cooking of raw meat (to be modelled by the teacher) - Create, plan, prepare and cook a healthy evening meal using a heat source - Demonstrate a range of cooking techniques- chopping, kneading, grating, mixing etc