



Weddington Primary School

Design and Technology Skills Progression Reception

EYFS	Skills
	<p>Cut continuously in a curved and straight line.</p> <p>Develop fine motor control.</p> <p>Manipulating a range of materials.</p> <p>Use tools safely and confidently to cut and join materials.</p> <p>Select appropriate materials.</p> <p>Discuss their creations and express how they made them and explain how they work.</p> <p>Use imagination to create items.</p>

Design and Technology Skills Progression Year 1

Autumn	Spring	Summer
National Curriculum Subject Content	National Curriculum Subject Content	National Curriculum Subject Content
<p>Textiles</p> <p>Can I create a puppet to sell at the Christmas Fayre?</p> <p>Design purposeful, functional and appealing products for themselves and others.</p> <p>Select from and use a range of tools and techniques to perform practical tasks e.g. cutting, joining, finishing</p> <p>Select from and use a wide range of materials including textiles</p>	<p>Construction</p> <p>Can I design a car that would be seen in Weddington?</p> <p>Generate and develop ideas through talking, drawing and ICT</p> <p>Design functional products</p> <p>Select from a range of tools and materials according to their characteristics</p>	<p>Food Technology</p> <p>Can I make a smoothie to encourage Reception children to eat more fruit?</p> <p>Be taught how to cook and apply the principles of nutrition and healthy eating.</p> <p>Understand where food comes from.</p>
Skills	Skills	Skills
<p>Use a template to create a design for a puppet</p> <p>Cut fabric neatly with scissors</p> <p>Use joining methods to decorate a puppet</p> <p>Sequence steps for construction</p> <p>Reflect on a finished product, explaining likes and dislikes</p>	<p>Design a vehicle that includes wheels, axles and axle holders that will allow the wheel to move</p> <p>Create clearly labelled drawings that illustrate movement</p> <p>Adapt mechanisms when they do not work, to fit their design or to improve after testing</p>	<p>Design a smoothie carton that is attractive and eye catching</p> <p>Peel and chop fruits and vegetables</p> <p>Safely use a blender to mix ingredients together</p> <p>Suggest information to be included on packaging</p>





Design and Technology Skills Progression Year 2

Autumn	Spring	Summer
<p>National Curriculum Subject Content</p> <p>Textiles Can I design a pouch to create a class advent calendar? Design purposeful, functional and appealing products for themselves and others. Select from and use a range of tools and techniques to perform practical tasks eg cutting, joining, finishing Select from and use a wide range of materials including textiles</p>	<p>National Curriculum Subject Content</p> <p>Construction Can I design a bridge for the River Anker that can lift up? Generate and develop ideas through talking, drawing and ICT Design functional products Select from a range of tools and materials according to their characteristics Explore how structures can be made stronger, stiffer and more stable</p>	<p>National Curriculum Subject Content</p> <p>Food Technology Can I make a healthy wrap for someone who doesn't eat meat? Be taught how to cook and apply the principles of nutrition and healthy eating. Understand where food comes from.</p>
<p>Skills</p> <p>Select and cut fabrics for sewing Decorate a pouch using fabric glue or running stitch Thread a needle Use running stitch, with evenly spaced, neat, even stitches to join fabric Neatly pin and cut the fabric using scissors Evaluate the quality of stitching on others' work</p>	<p>Skills</p> <p>Design a moving bridge to match a design criteria Experiment with linkages and split pins to create levers and pivots Create joints and structures from paper, card and tape Build a strong and stiff structure by folding paper</p>	<p>Skills</p> <p>Design a healthy wrap based on a food combination that works well Slice food safely using the bridge or claw grip Construct a wrap that meets a design brief Taste test food combinations and final products Describe information that should be included on a food label</p>





Design and Technology Skills Progression Year 3

Autumn	Spring	Summer
National Curriculum Subject Content	National Curriculum Subject Content	National Curriculum Subject Content
<p>Textiles Can I create a hanging Christmas decoration to sell at the Christmas Fayre? Design functional, appealing products aimed at a particular group and are fit for purpose Select from a wider range of tools and materials to perform practical tasks</p>	<p>Construction Can I create a lift that can lift an Easter egg above 30cm? Use research to inform the design of functional and approving products that fit a purpose Investigate and analyse a range of existing products Apply their knowledge of how to strengthen and reinforce more complex structures Understand and use mechanical systems in their products</p>	<p>Food Technology Can I create a sandwich using ingredients grown in the UK? Be taught how to cook and apply the principles of nutrition and healthy eating Understand where food comes from Understand seasonality and know where and how a variety of ingredients are grown</p>
Skills	Skills	Skills
<p>Design and make a template Know and understand the purpose of running stitch, backstitch and cross stitch Thread needles and tying knots with greater independence Decorate fabric using appliqué</p>	<p>Draw and label a lift design using the shapes to be created and the materials needed Construct 3D shapes using geometric nets Create a pneumatic system to create a desired motion Manipulate materials to create different effects by cutting, creasing, folding and weaving. Suggest points for modification of the individual designs</p>	<p>Create a nutritious sandwich using products grown in the UK Use basic food hygiene rules when preparing themselves and the work space Describe the benefits of choosing seasonal foods and the impact on the environment</p>





Design and Technology Skills Progression Year 4

Autumn	Spring	Summer
<p>National Curriculum Subject Content</p> <p>Textiles Can I create a personalised pencil case? Use research to design functional products that are fit for purpose Generate and develop their ideas through the use of prototypes, pattern pieces and computer aided design Select from a range of materials according to functional properties and aesthetic qualities</p>	<p>National Curriculum Subject Content</p> <p>Construction Can I create a slingshot car that can travel over 1metre in distance? Use research and develop a design criterion to inform the design of innovative, functional products that are fit for purpose Select from and use a wider range of tools and equipment to perform practical tasks accurately Understand how key events and individuals in design and technology have helped shaped the world</p>	<p>National Curriculum Subject Content</p> <p>Food Technology Can I design a biscuit within a given budget? Be taught how to cook and apply the principles of nutrition and healthy eating. Understand where food comes from. Learn how to feed themselves and others affordably and well</p>
<p>Skills</p> <p>Make and test a paper template with accuracy and in keeping with the design criteria Measure, marking and cutting fabric using a paper template Selecting a stitch style to join fabric Working neatly by sewing small, straight stitches Incorporate a fastening to a design.</p>	<p>Skills</p> <p>Select appropriate materials to build a strong structure and cladding Reinforce corners to strengthen a structure Create a design in accordance with a plan Learn to create different textural effects with materials Measure, mark, cut and assemble with increasing accuracy</p>	<p>Skills</p> <p>Design a biscuit within a budget Draw on taste testing judgements Follow a basic recipe Adapt a recipe to improve or change it to meet a new criterion Describe the impact of a budget on the selection of ingredients</p>





Design and Technology Skills Progression Year 5

Autumn	Spring	Summer
<p>National Curriculum Subject Content</p> <p>Textiles Can I create a stuffed toy to create a class nativity scene? Generate, develop, model and communicate their ideas through discussion, annotated sketches, prototypes and pattern pieces Select from and use a wider range of materials including textiles according to their functional properties and aesthetic qualities</p>	<p>National Curriculum Subject Content</p> <p>Construction Can I create a moveable vehicle that could be used to explore another planet? Use research to generate design criteria to inform the design of products that are fit for purpose Understand how key events and individuals in design and technology have helped shape the world Understand and use electrical systems in their products</p>	<p>National Curriculum Subject Content</p> <p>Food Technology Can I design a healthy snack inspired by the Middle East? Understand and apply the principles of a healthy and varied diet Prepare and cook a variety of dishes using a range of techniques Understand seasonality and where and how ingredients are grown</p>
<p>Skills</p> <p>Create a 3D stuffed toy from a 2D design Measure, mark and cut fabric accurately and independently Create strong and secure blanket stitches when joining fabric Thread needles independently Using appliqué to attach pieces of fabric decoration Apply blanket stitch so the spaces between the stitches are even and regular</p>	<p>Skills</p> <p>Measure, cut, join and fix materials accurately and economically Use mechanical pulleys to allow movement Select appropriate tools and equipment Design, make, evaluate and refine</p>	<p>Skills</p> <p>Research existing recipes to inform ingredient choices Adapt a traditional recipe, understanding that the nutritional value of a recipe alters if you remove, substitute or add additional ingredients Cut and prepare vegetables safely Use equipment safely, including knives, hot pans and hobs. Know how to avoid cross-contamination. Follow a step by step method carefully to make a recipe.</p>





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Design and Technology Skills Progression Year 6

Autumn	Spring	Summer
National Curriculum Subject Content	National Curriculum Subject Content	National Curriculum Subject Content
<p>Textiles Can I create a Christmas gift bag with a fastening? Generate, develop, model and communicate their ideas through annotated sketches, prototypes, pattern pieces and computer aided design Select from and use a wider range of materials and components according to their functional properties and aesthetic qualities Investigate and analyse a range of existing products</p>	<p>Construction Can I design an interactive book for a young child? Investigate and analyse a range of existing products Select from a wider range of tools and equipment to perform tasks accurately Understand and use mechanical systems in their products e.g. gears, pulleys, levers Understand and use electrical systems in their products</p>	<p>Food Technology Can I make a healthy wrap for someone who doesn't eat meat? Be taught how to cook and apply the principles of nutrition and healthy eating. Understand where food comes from.</p>
Skills	Skills	Skills
<p>Measure accurately to produce a paper pattern and final product Use running stitch, backstitch, and overstitch to bond edges Use blanket stitch to decorate products Select the correct tools and equipment Design, make, evaluate and refine</p>	<p>Follow a design brief to make a pop-up book, neatly and with focus on accuracy Make mechanisms and/or structures using sliders, pivots and folds to produce movement, light or sound Use layers and spacers to hide the workings of mechanical parts for an aesthetically pleasing result.</p>	<p>Design a healthy wrap based on a food combination that works well Slice food safely using the bridge or claw grip Construct a wrap that meets a design brief Taste test food combinations and final products Describe information that should be included on a food label</p>

