

Fritwell Primary School Design and Technology LTP 2019/20



Coverage of techniques and topics

Threshold concepts: Master practical skills, design, make, evaluate and improve, take inspiration from design throughout history

	Autumn term	Spring term	Summer term
EYFS	All Around Me/ Robots Food: biscuits, sandwiches for picnic	Wonderful World/ Transport Textiles: stitching	Mini-beasts/ Heroes Construction: junk modelling
Y1/2 Sticklebacks	Fire and Ice Food: Design and make your own bread rolls <ul style="list-style-type: none"> Explore, research, design Assemble and cook ingredients Measuring and weighing Mix hygienically and safely Evaluate 	No Place Like Home Textiles: Create a Binca collage of your house (stitching) <ul style="list-style-type: none"> Explore, research, design Shape textiles using templates Join textiles with running stitch Decorate using range of techniques (sequins, dyeing) Evaluate 	Secret Garden Structures: Build a Fairy House <ul style="list-style-type: none"> Explore, research, design Cut materials safely Measure and mark in cms Tear, cut, fold, curl Joining techniques (gluing, hinges) Drilling, screwing and nailing to strengthen Evaluate

<p>Y2/3 Seahorses</p> <p>Split milestone objectives are in red</p>	<p>The Stone Age Mechanisms: How to Make Stone Age Life Easier? (Lifting boulders – levers/pulleys)</p> <ul style="list-style-type: none"> • Explore, research, design • Identify some of the great pioneering techniques to generate ideas for design (M2) • Disassemble products to understand how they work (M2) • Cut, measure in cms • Gluing and hinges for joins • Use slots and cut outs to shape (M2) • Evaluate, suggest improvements 	<p>Australia Food: Design a Typical Australian Dessert (lamingtons)</p> <ul style="list-style-type: none"> • Explore, research, design • Cut, peel and grate • Measure and weigh (M2 weigh to the nearest gram) • Mix hygienically • Follow recipe (M2) • Evaluate, suggest improvements • Refine for future products (M2) 	<p>Extinction Textiles: Picasso style wall hanging (applique)</p> <ul style="list-style-type: none"> • Explore, research, design • Shapes textiles using templates • Join textiles using appropriate stitch (M1 running stitch only) • Select appropriate techniques to decorate (M2) • Evaluate, suggest improvements • Refine for future products (M2)
<p>Y3/4 Stingrays</p>	<p>Water Mechanisms: Design a Well (winding mechanisms)</p> <ul style="list-style-type: none"> • Explore, research and design • Use scientific knowledge of forces to choose appropriate mechanisms such as levers, pulleys and gears • Suitable materials to construct product • Select materials carefully, continually evaluating the design • Evaluate, suggest improvements giving reasons for choice 	<p>Romans Food: Your very own 'Roman' pizza</p> <ul style="list-style-type: none"> • Explore, research and design • Prepare ingredients hygienically • Measure to nearest gram • Assemble and cook ingredients • Evaluate, suggest improvements giving reasons for choice 	<p>Disasters Textiles: Safety blanket for survival kit</p> <ul style="list-style-type: none"> • Explore, research and design • Join textiles with appropriate stitching • Select appropriate techniques to decorate textiles • Evaluate, suggest improvements giving reasons for choice

Y5/6 Sharks	<p>Evolve Textiles: Design a Christmas cushion (back stitching)</p> <ul style="list-style-type: none"> • Explore, research and design • Research a range of designers • Join textiles with a combination of stitching techniques including a back stitch • Create a high quality finish using art skills • Design with a user in mind • Evaluate and suggest improvements for user experience 	<p>Alpha and Omega Food: Greek salad</p> <ul style="list-style-type: none"> • Explore, research and design • Research a range of designers • Understand the importance of correct storage (knowledge of micro-organisms) • Measure using ratios • Create and refine ingredients • Create a high quality finish using art skills • Design with a user in mind • Evaluate and suggest improvements for user experience 	<p>Diversity Structure: Create a sun shelter with electrical switch/bulb</p> <ul style="list-style-type: none"> • Explore, research and design • Research a range of designers • Practical skills: cutting, drilling, screwing, nailing, sanding • Electrical circuit which uses a switch • Create a high quality finish using art skills • Design with a user in mind • Evaluate and suggest improvements for user experience
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