



'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan
We live with love and compassion, seeking help in times of need

Curriculum Map: Design Technology Year 5

	Autumn Materials: Bridges and Engineering	Spring Food from other countries: Fajitas	Summer Levers and Pulleys
Content Declarative Knowledge 'I know'	<ul style="list-style-type: none"> - I know the main types of bridges: cable stayed bridges, girder bridges, arch bridges, rigid frame bridges, truss bridges - I know the name of some famous bridges of the world and their engineers - I understand how and why famous bridges are adapted to specific requirements ie gap length, soil type etc 	<ul style="list-style-type: none"> - I use knowledge of Mexico and it's climate to learn about the types of foods grown in Mexico ie onions, peppers and types of spices ie chilli, garlic, paprika 	<ul style="list-style-type: none"> - I know what levers and pulleys are. - I understand that different mechanisms produce different types of movement - I know what is meant by iterative design
Skills Procedural Knowledge 'I know how to'	<p>Design</p> <ul style="list-style-type: none"> - I know how to generate innovative ideas through research including surveys, interviews and questionnaires and discussions with peers to develop a design brief and criteria for a design specification - I know how to design purposeful functional, appealing products for the intended user that are fit for purpose based on a simple design specification - I know how to design and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views and, where appropriate, computer-aided design <p>Make</p> <ul style="list-style-type: none"> - I know how to produce detailed lists of equipment and fabrics relevant to my tasks - I know how to write a step-by-step plan, including a list of resources required - I know how to select from and use, a range of appropriate utensils, tools and equipment accurately to measure and combine appropriate ingredients, materials and resources. <p>Evaluate</p> <ul style="list-style-type: none"> - I know how to investigate and analyse products linked to my final product - I know how to compare the final product to the original design specification and record the evaluations - I know how to test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose. - I know how to consider the views of others to improve their work. 		

	<ul style="list-style-type: none"> - I know how to cut wood or chosen materials - I know how to construct a bridge applying components to strengthen and reinforce the structure - I know how to identify weak points during construction and incorporate strength and reinforcing solutions where appropriate 	<ul style="list-style-type: none"> - I know how to make fajitas - I know how to make a spice mix - I know how to fry beans, peppers and onions 	<ul style="list-style-type: none"> - I know how explore and use levers and pulleys. - I know how to use trial and error to for iterative design.
Vocabulary	Design decisions, functionality, authentic, user, purpose, design, specification, design brief, innovative, research, evaluate, design criteria, annotate, evaluate, mock-up, prototype, frame, structure, strengthen, stiffen, reinforce	Ingredients, flour, spice, carbohydrate, protein, seasonality, utensils, combine, stir, pour, mix, healthy, varied, gluten	Design decisions, functionality, authentic, user, purpose, design, specification, design brief, innovative, research, evaluate, design criteria, annotate, evaluate, mock-up, prototype, slider, lever, pulley, pivot, slot, bridge/guide, iterative design, trial and error
Key Questions	What are the best materials and designs for designing a bridge that can bear a load? How can I join materials together to make a bridge? (include design) How successful is my final product?	How does Mexico's climate affect which foods grow there? How can we make tortillas, spice mix and a veggie filling? How expensive is it to make fajitas?	How does iterative design work? How can we use iterative design to optimise a pulley system? How can we use iterative design to optimise a lever system?
Assessment	Teacher observation against key declarative and procedural knowledge, analysis of final product and children's evaluations.		
Cross Curricular Links/Character Education	Cultural awareness: knowledge of famous bridges and engineers	Geography: links to seasonality and knowledge of Mexico's climate	Science: testing and changing variables