












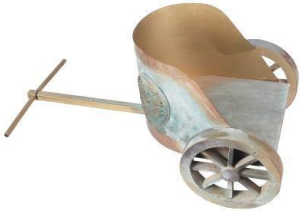


St Mary's Progressive Design and Technology Curriculum – Cycle A

<p>Robins</p>	<p>My Kingdom I can make a castle using junk modelling.</p>	<p>On the Move I can explore how vehicles move – wheels, floating, rails. I can make model boats that float on water.</p>	<p>Hot and Cold Places I can talk about clothes that keep me warm and clothes that keep me cool. I can make clothes for Barney Bear. I can make foods to warm me up (soup) and foods to cool me down (icecream).</p>
<p>Larks</p>	<p>King of the Castle</p>  <p>I can design a castle, labelling key features. I can cut, shape and join cardboard. I can use a slider to make a portcullis. I can make a simple drawbridge.</p>	<p>London Bus</p>  <p>I can design a moving bus. I can attach wheels to dowel to make an axle. I can use wheels and axles to make my bus move forwards when pushed.</p>	<p>Punch and Judy</p>  <p>I can design a puppet for a Punch and Judy show. I can use a template to cut my puppet out of fabric. I can use sewing to join fabrics. I can use my puppet to perform a simple sketch.</p>
<p>Swifts</p>	<p>Stone Age Tools</p>  <p>I can use ICT to research stone age tools. I can make stone age tools using wood and oasis. I can shape oasis using blunt knives.</p>	<p>Fairground Attraction</p>  <p>I can design a Victorian fairground ride. I can use ICT to research Victorian fairground rides.</p>	<p>Egyptian Shaduf</p>  <p>I can explore the use of levers in everyday objects e.g. seesaw I can understand how levers help to move</p>

	I can join blade to handle using binding.	I can develop my ideas through annotated sketches. I can make an electrical circuit including a motor. I can use an electrical circuit to make a moving fairground ride.	heavy objects. I can design and make a Shaduf to lift water from the river Nile. I can cut square wood using a hand saw. I can join wood using binding.
Owls	<p style="text-align: center;">Viking Settlement</p>  <p>I can use ICT to research Viking settlements. I can measure, cut and join square section wood using simple tools (jig, handsaw, woodblock, glue). I can use triangles to strengthen joints. I can use natural materials to finish my model.</p>	<p style="text-align: center;">Water Wheels</p>  <p>I can explore how a shaft and gears are used to transfer the power of water to a machine. I can design and make a simple waterwheel.</p> <p style="text-align: center;">Trains (Hitachi Rail Project)</p> <p>I can explore how pulleys are used in everyday life to lift/pull heavy objects. I can use an electrical circuit to make a moving train. I can use pulleys to increase torque in order to pull carriages.</p>	<p style="text-align: center;">Titanic</p>  <p>I can explore how cams are used. I can design and make a simple moving model of the Titanic at Sea, using cams. I can use simple tools to measure, cut and join materials, including wood.</p>

St Mary's Progressive Design and Technology Curriculum – Cycle B

Robins	<p style="text-align: center;">My Kingdom</p> <p>I can make a castle using junk modelling.</p>	<p style="text-align: center;">On the Move</p> <p>I can explore how vehicles move – wheels, floating, rails. I can make model boats that float on water.</p>	<p style="text-align: center;">Hot and Cold Places</p> <p>I can talk about clothes that keep me warm and clothes that keep me cool. I can make clothes for Barney Bear. I can make foods to warm me up (soup) and foods to cool me down (ice cream).</p>
Larks	Healthy Superhero Lunch	Sliders and Levers	Indian Settlement

	 <p>I can talk about where food comes from. I understand which foods are healthy and the importance of a varied diet. I can design and make a healthy lunch for a superhero.</p>	 <p>I can use sliders and levers to make moving pictures.</p>	 <p>I can gather pictures of Indian settlements and talk about their homes. I can make a model of an Indian Tipi. I can work with my friends to make an Indian Tipi in the school field, using canes and fabrics. (Decorate fabrics using fabric pens)</p>
<p>Swifts</p>	<p style="text-align: center;">Greek Chariot</p>  <p>I can follow a step-by-step plan to make a model of a Greek chariot, choosing the right equipment and materials. I can use wheels and axles to make my chariot move forwards when pulled.</p>	<p style="text-align: center;">Roman Sandals</p> <p>I can use a range of materials to create a model of a Roman sandal. I can use different joining techniques.</p> 	<p style="text-align: center;">Mayan Temple</p> <p>I can use research to design a Mayan temple. I can measure accurately. I can construct cuboids using card.</p>  <p style="text-align: center;">Mayan Tortillas</p> <p>I can prepare and cook Mayan tortillas.</p>
<p>Owls</p>	<p>Nutritious I can talk about where my food comes from – seasonality, farming and preserving. I understand the importance of a healthy diet.</p>	<p style="text-align: center;">Moon Buggy</p>	<p style="text-align: center;">Recycle and Reuse</p>

I can sort foods into nutritious food groups.
I can design and plan a nutritious meal.
I can prepare and cook a meal.
I can design a menu using ICT.



I can design a motorised space buggy.
I can use specially adapted **wheels and axles** to make my buggy move across uneven surfaces.
I can use an **electrical circuit** and **pulleys** to make my buggy move.



I can recycle and reuse items to design and make a garden.

I can recycle and reuse items to design and make a shelter.

