



Gwlady's Street C P and N School Long Term Plan – Design and Technology



Nursery and Reception	Build walls to create enclosed spaces.	Builds towers by stacking objects.	Builds simple models using walls, roofs and towers.	Builds models which replicate those in real life.	Use a variety of materials to sculpt.
	Autumn	Spring	Summer		
Year 1	Toys	Poles Apart	Flight		
	Food- Preparing fruit and vegetables. Creating a healthy snack for a teddy bears picnic using cutting skills and recognising how to keep safe with food.	Freestanding Structures – focusing on making a model stronger. Creating a shelter for an arctic animal.	Mechanisms-Leavers and sliders- making a moving product. Making a hot air balloon with a moving part.		
Year 2	London's Burning	Indian Spice	Pioneers	Opening Worlds - The Neolithic Age	

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	Freestanding Structures. using reclaimed materials and construction kits to make a landmark in London. Focusing on making the model stable and strong	Food – preparing fruit and vegetables. Following a recipe to prepare and make a healthy Indian snack. Understanding where fruit and vegetable produce comes from.	Mechanisms- Wheels and axels. Joining materials and different components in different ways to create a train or car.

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	Year 3 Opening Worlds		
Year 3	Ancient Egypt Rivers Cradles of Civilisation Mountains	Indus Valley Civilisation Settlements Persia/Greece Agriculture	Ancient Greece Volcanoes Alexander the Great Biomes
	Mechanisms- Levers and linkages. Using flaps, sliders and levers to create an information book using a pop-up based on the stone age or Egyptians.	Food- Healthy and varied diet. Working hygienically to create a meal to help with survival – food linked to energy - using seasonal products.	Structures- Shell Structures. Using 2D and 3D shapes to create an airport. Developing prototypes to make them stronger and stiffer shell structures.
	Year 4 and 5 and follow the new Opening Worlds curriculum with different outcomes for D.T.		
Year 4	Roman Republic Rhine and Mediterranean Roman Empire Population	Roman Britain Coastal Landforms Christianity Tourism	Arabia and Early Islam Earthquakes Islamic Civilisation Deserts
	Mechanical systems- Levers and linkages. Designing and creating a Roman Catapult using a prototype to improve a design.	Tourism – Healthy and varied diet. Working hygienically and safely to create a dish from each continent of the world using research and planning and using a recipe.	Structures – Design and create an aqueduct – study early designs and learn how to make structures stronger.

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Year 5			
	<p>Structures- Frame Structures – creating an innovative bridge design using a prototype. Hydraulic Bridges</p> <p>How are different bridges designed and the different types of bridges for different purposes. Designing and making a moving bridge using hydraulics.</p>	<p>Food/Agriculture and Farming. Understanding seasonality of crops/food produced/learn how crops are grown, reared and processed. Look at how packaging types and sustainability.</p>	<p>Design and make a volcano – use of CAMS to show how it makes movement.</p>
Year 6	Greece Lightning	Disaster	Rule Britannia
	<p>Celebrating culture and Seasonality- Food. Learning that recipes can be adapted and changed to suit appearance, taste, texture and aroma. Creating a Greek banquet for a Greek ruler following a recipe.</p>	<p>Structures- Frame Structures – follow and refine plans and evaluate products against a criteria. Design and create and a Pompeii souvenir which can be sold to a tourist.</p>	<p>Textiles–Combining different fabric shapes. Using a combination of stitching techniques to create a tapestry using different stitching techniques.</p>

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