



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



	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
	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.	

Golden Opportunities for Achievement and Learning



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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 aquaduct – 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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