



Dean Bank Primary and Nursery School KS1 and KS2 D.T Long Term Plan

Year	Autumn	Spring	Summer
1		<p>Mechanisms Moving vehicles.</p>	<p>Construction Re-designing London after the great fire.</p>
2		<p>Construction Create reusable recycle bins linked to science topic 'Uses of everyday materials'</p>	<p>Mechanisms Moving toys</p>
3		<p>Electrical and Mechanical components Pulley system – how did they lift heavy stone to create Stonehenge Recap on mechanisms from Year 2 simple cog and wheel motion</p>	<p>Construction – mouldable materials Creation of an Egyptian Monolith/Obelisk</p>
4		<p>Construction – mouldable materials Create own monument/catapult</p>	<p>Electrical and Mechanical components Chariot making – moveable</p>
5		<p>Electrical and Mechanical components Design and make space buggy and evaluate against criteria.</p>	<p>Construction – mouldable materials Design and make own unique bridge and compare other builds around the world. Trip to Newcastle exploring the range of bridges found there.</p>
6		<p>Electrical and Mechanical components To research, design and make a controllable vehicle which includes mechanisms and electronics.</p> <p>Recap on the circuits from previous year groups and allow children to delve into previous knowledge. Move into the mechanics of a car and what allows the vehicle to move (wheels, motor, battery etc). Could the children reciprocate a basic design by using previous knowledge of circuits? Explore and allow children to create their own vehicle in groups/pairs.</p>	<p>Construction – mouldable materials To research, design, make and evaluate an air raid shelter.</p> <p>Research purpose of a shelter and discuss through research best shelters found. Look at appeal through looks and innovation. Suggest ways to improve. From research, design own shelter in a group and Justify the use of selected materials and explain why they have chosen to use it. Provide a budget and children to work within. Provide a design criteria for children to go up against whilst designing their final piece</p>