



The Willows Primary School

Subject Overview - Year 1 & 2 - DT PRODUCTS

Research, design and make a space shuttle, using given design criteria.

Term	Theme Title
Autumn 2	Time Travellers

Knowledge and Skills Coverage
<ul style="list-style-type: none"> • Design products for others and themselves that are purposeful, functional and appealing • Generate, develop, model and communicate ideas through talking, drawing, templates and ICT • Select from and use a wide range of materials and components according to their characteristics • Select from and use a wide range of tools and equipment to perform practical tasks • Evaluate own ideas and designs against given design criteria • Explore and evaluate a range of existing products

Prior Knowledge	Reception Celebrate With Me Reception How To Be A Superhero Year 1 London's Burning
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Cultural Capital Opportunities	
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Key Knowledge	Questions to measure impact
<ul style="list-style-type: none"> • Research Apollo 11. Analyse structure, shape, and key features of the shuttle • Create own rocket design criteria based on this research • Select from a wide range of materials and components to solve the problem of getting the rocket to launch (eg balloons, pneumatic, springs) • Create own rocket based on experimentation with materials and components • Test and record effectiveness of rocket launch • Evaluate effectiveness of their rockets and share most effective way of launching a model rocket 	



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Key Vocabulary for Year 2	Topic Specific Vocabulary
<p>healthy nutrition cooking evaluate design balanced varied prepare grown reared processed stabilise communicate gear components functional experiment pulley appealing represent movement purpose</p>	<p>research purpose tools product communicate construct material drawing make design diagram build stiffen stabilise strengthen</p>

Recommended Reading	
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Links to future learning	<p>Year 2 Unsinkable? Year 3 What A Saga! Year 3 Anglo-Saxon Chronicles Year 3 Child Of Our Time Year 4 Veni, Vidi, Vici Year 4 Who Pays The Price? Year 5 Law And Disorder Year 5 Space Race Year 6 Secrets Of The Sarcophagus Year 6 FAIRtrade? Year 6 A Prehistoric Puzzle</p>
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