



# The Willows Primary School

## Subject Overview - Year 1 & 2 - DT PRODUCT

### Design and make a replica of the Titanic, drawing on its key features

Term	Theme Title
Spring 2	Unsinkable

Knowledge and Skills Coverage
<ul style="list-style-type: none"> <li>• Design products for others and themselves that are purposeful, functional and appealing</li> <li>• Build structures, exploring ways to stiffen, stabilise and strengthen</li> <li>• Select from and use a wide range of materials and components according to their characteristics</li> <li>• Select from and use a wide range of tools and equipment to perform practical tasks</li> <li>• Evaluate own ideas and designs against given design criteria</li> <li>• Explore and evaluate a range of existing products</li> </ul>

Prior Knowledge	Reception Celebrate With Me Reception How To Be A Superhero Year 1 London's Burning Year 2 Time Travellers
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Cultural Capital Opportunities	
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Key Knowledge	Questions to measure impact
<ul style="list-style-type: none"> <li>• Investigate why the designers of the Titanic thought this ship was 'unsinkable'</li> <li>• Share a cross-section of the ship and analyse (eg the number of hulls, different layers of ship including below water line)</li> <li>• Share challenge of replicating a boat design, with two main purposes:               <ul style="list-style-type: none"> <li>• Buoyancy of design</li> <li>• Use of material to prevent water penetrating</li> <li>• Use a range of materials to build the most effective boat in line with design criteria</li> </ul> </li> <li>• Test all the boats as a class and record findings</li> <li>• Evaluate and note common trends / most effective materials</li> </ul>	



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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 product material communicate purpose design drawing diagram tools build make construct strength stiffen stabilise</p>

<b>Recommended Reading</b>	
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<b>Links to future learning</b>	<p>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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