



## Curriculum

Year 6 Scheme of Work Design Technology	
Term: Spring 1	Topic: Structures - Playground
<b>Key Skills and Knowledge:</b>	
<p><b>Key Skills</b></p> <p><b>Developing, planning and communicating ideas</b></p> <ul style="list-style-type: none"> <li>Designing a playground featuring a variety of different structures, giving consideration to how the structures will be used.</li> </ul> <p><b>Working with tools, equipment, materials and components</b></p> <ul style="list-style-type: none"> <li>Measuring, marking and cutting wood to create a range of structures.</li> <li>Using a range of materials to reinforce and add decoration to structures.</li> <li>Building a range of play apparatus structures drawing upon new and prior knowledge of structures</li> </ul>	<p><b>Evaluating processes and products</b></p> <ul style="list-style-type: none"> <li>Considering effective and ineffective designs.</li> <li>Improving a design plan based on peer evaluation.</li> <li>Testing and adapting a design to improve it as it is developed.</li> <li>Identifying what makes a successful structure.</li> </ul> <p><b>Key Knowledge</b></p> <ul style="list-style-type: none"> <li>To know that structures can be strengthened by manipulating materials and shapes.</li> <li>To understand what a 'footprint plan' is.</li> <li>To understand that in the real world, design can impact users in positive and negative ways.</li> <li>To know that a prototype is a cheap model to test a design idea.</li> </ul>
<b>Reading and Writing Opportunities (Long and Short Activities)</b>	
<b>Creative Ideas and Hooks</b>	
<p><b>Hooks</b></p> <ul style="list-style-type: none"> <li>Children visit local park/ playground</li> <li>Link to proposal of new playground in local area. What would you like it to look like?</li> </ul> <p><b>Artist Knowledge</b></p> <ul style="list-style-type: none"> <li>Yinka Llori- A colour obsessed architect and designer. He believes that using bright colours are uplifting and therefore represent joy and love.</li> </ul>	<p><b>Writing/ Research Opportunities</b></p> <ul style="list-style-type: none"> <li>Who is Yinka Llori? What inspires him? What do you like/ dislike about the playground that he designed?</li> <li>Research existing playground equipment. Which are your favourite and why?</li> <li>Progress report after completing final product.</li> </ul>
<b>Links to PSHCE, Equality and British Values Work</b>	
<b>Useful Websites:</b>	
<p><b>British Values</b></p> <p><b>Democracy</b> The children must take the views and opinions into account but still have the right to make their own choices.</p> <p><b>The Rule of Law</b></p> <ul style="list-style-type: none"> <li>To understand the importance of safety rules when using tools.</li> </ul> <p><b>Individual Liberty</b></p> <ul style="list-style-type: none"> <li>To understand that they are able to listen to others but can use their own ideas and design choices.</li> <li>To understand that many great design ideas originate from other cultures.</li> </ul> <p><b>Mutual Respect</b></p> <ul style="list-style-type: none"> <li>To listen to and consider the ideas and opinions of others even if they differ from your own.</li> <li>To offer supportive comments in evaluations that will improve learning outcomes in a way that is objective but sensitive to the listener.</li> </ul>	
<b>Previous Learning:</b>	<b>Resources Available / Visits/Visitors</b>
<ul style="list-style-type: none"> <li>Do I know how to strengthen structures?</li> <li>Do I know the shapes that make structures strong?</li> <li>Do I know how to use woodwork tools accurately and safely?</li> <li>Do I know how to measure accurately?</li> <li>Do I know how to use a template?</li> <li>Do I know what a prototype is?</li> </ul>	<p>A4 paper, A3 card, rulers, scissors, 10cmx10cm dowels, tenon saws/ coping saws, lolly sticks, range of cladding materials, junk modelling materials, PVA/ glue guns, bench hooks/ vices, straws, string, pipe cleaners</p> <p><b>Key Vocabulary:</b></p> <p>Apparatus, design criteria, equipment, playground, landscape features, cladding</p>
<p><a href="https://yinkailori.com/work/flamboyance-of-flamingo-playground">https://yinkailori.com/work/flamboyance-of-flamingo-playground</a></p> <p>Examples of children's work- <a href="https://biddickhallschool.co.uk/building-a-playground-in-year-6-as-part-of-design-and-technology/">https://biddickhallschool.co.uk/building-a-playground-in-year-6-as-part-of-design-and-technology/</a></p> <p><a href="https://www.wilmslowprep.co.uk/ks2-design-technology/">https://www.wilmslowprep.co.uk/ks2-design-technology/</a></p> <p><a href="https://www.kapowprimary.com/subjects/design-technology/upper-key-stage-2/year-6/structure-playgrounds/">https://www.kapowprimary.com/subjects/design-technology/upper-key-stage-2/year-6/structure-playgrounds/</a></p>	