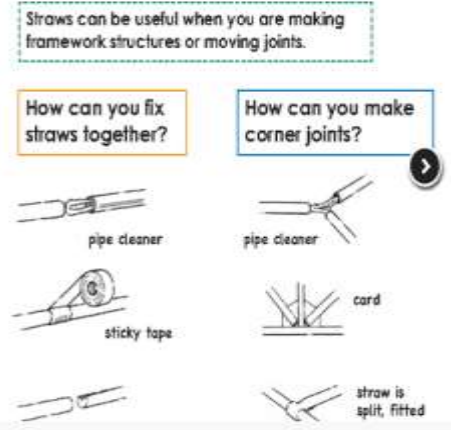




Design and Technology	Structures	
Skills	Knowledge	Vocabulary
<p><b>Let's Get Practical! Working with paper straws</b></p> <p>Straws come in different sizes.</p> <p>Straws can be useful when you are making framework structures or moving joints.</p> <p>How can you fix straws together?</p> <p>How can you make corner joints?</p> <p>Paper straws are flexible and can be creased or flattened to make joints.</p> <p>Try using a wide straw around a narrow one to make sliding and rotating joints.</p> 	<p>Dame Zaha Mohammad Hadid DBE RA was an Iraqi-British architect, artist and designer, recognised as a major figure in architecture of the late 20<sup>th</sup> and early 21<sup>st</sup> centuries.</p> 	<ul style="list-style-type: none"> <li>• <b>frame structure</b> – A structure made from thin components (such as a tent frame)</li> <li>• <b>stiffen</b> – To make a structure more stiff or rigid.</li> <li>• <b>strengthen</b> – To make a structure stronger and less likely to fail.</li> <li>• <b>reinforce</b> – To add strength and support to a structure with additional material.</li> <li>• <b>triangulation</b> - The use of triangular shapes to strengthen a structure.</li> <li>• <b>temporary</b> – A structure that is not designed for long term use.</li> <li>• <b>permanent</b> – A structure designed to be long-lasting and remain in place.</li> </ul>
	<ul style="list-style-type: none"> <li>• Use art straws to create a prototype of the structure.</li> <li>• Competently select from and use appropriate tools to accurately measure, mark out, cut, shape and join construction materials to make structure.</li> <li>• Understand how to strengthen, stiffen and reinforce 3-D frameworks.</li> </ul>	<p><b>Recall: Can you remember what these words mean?</b></p> <ul style="list-style-type: none"> <li>• 3 dimensional</li> <li>• design brief</li> <li>• prototype</li> <li>• annotated sketch</li> <li>• target group/user</li> <li>• functional</li> <li>• join</li> </ul>