
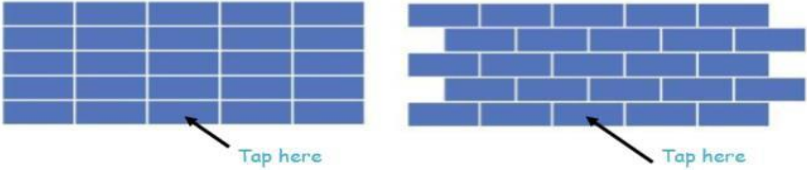
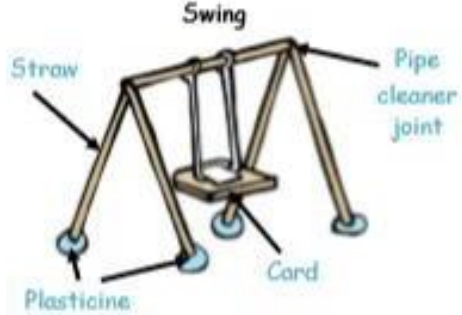





Design and Technology Knowledge Organiser  
KS1 Structures

Prior Learning: Experience of using construction kits to build walls, towers and frameworks. Experience of using basic tools e.g. scissors or hole punches with construction materials e.g. plastic, card. Experience of different methods of joining card and paper.

Facts	Vocabulary
<p><b>What is a freestanding structure?</b> A freestanding structure is a structure that stands on its own foundation or base without attachment to anything else.</p>	<p><b>Stability</b> – in relation to a freestanding structure, the extent to which it is likely to fall over if a force is applied. <b>Base</b> – the lowest part or edge of something, especially the part on which it rests or is supported. <b>Edge</b> – the outside limit of an object, area, or surface. <b>Surface</b> - the outside part or uppermost layer of something</p>
<p><b>What is a framework?</b> A framework is the essential supporting structure of a building, vehicle or object.</p> 	
<p><b>Technical knowledge and understanding</b></p>  <p>Build walls with these different patterns. Tap away the centre brick in the bottom row of each wall in turn. What happens? Which wall is the strongest?</p>	<p><b>Freestanding structures</b></p> 
<p><b>Local freestanding structure</b></p>  <p>Blackpool Tower is the 120<sup>th</sup> tallest freestanding tower in the world. It opened in 1894 and stands at a height of 158m.</p>	
<p><b>Tallest freestanding structure</b></p>  <p>The Burj Khalifa in Dubai is the world's tallest freestanding structure. The skyscraper stands at 830m tall.</p>	