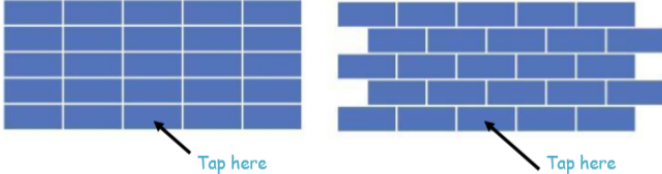




Year 1/2: Freestanding Structures-How did the Billy Goats Gruff cross the river?

Subject Specific Vocabulary		Prior Learning EY	Sticky Knowledge
<p>freestanding structure</p> <p>a structure that stands on its own foundation or base without attachment to anything else.</p>	<p>Experience of using construction kits to build walls, towers and frameworks.</p> <p>Experience of using of basic tools e.g. scissors or hole punches with construction materials e.g. plastic, card.</p> <p>Experience of different methods of joining card and paper.</p>	<p>Technical knowledge and understanding</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>stability</p> <p>in relation to a freestanding structure, the extent to which it is likely to fall over if a force is applied.</p>	<p>Future Learning Y3/4</p>		
<p>buttress</p> <p>a structure added to a wall, tower or framework to make it more stable and/or reinforce it.</p>	<p>Create a design for an end user.</p> <p>Use a shell structure to create a product.</p> <p>Use finishing techniques that make their product visually appealing and safe to handle.</p>		<ul style="list-style-type: none"> Investigate different kinds of bridge structures and the types of materials used to make them. Explore construction using different kits. Measure mark out and cut a range of chosen materials, these could be new or reclaimed. Think of ways to make a structure stronger try out folding materials or adding support to keep them stable. Pupils create a success criteria for their model and accurately base their evaluations upon its success. 
<p>brick bonding</p> <p>arranging bricks in a wall to improve the performance of the structure or improve its appearance.</p>	<p>Build on knowledge of how to strengthen sheet materials to build strong shell structures.</p>		
<p>mock up</p> <p>3-D representation of a product.</p>	<p>Make a bridge for the Three Billy Goats Gruff</p> 		
<p>Techniques for assembling freestanding structures</p> 