


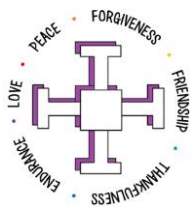




Christ Church CE Primary School
Design and Technology Assessment

Achieving excellence, opening minds, inspiring dreams, creating futures

Key Stage 1 Y5 - Autumn 2	Building Bridges	
Unit	<i>Core Curriculum content:</i>	
Knowledge and understanding is	<p>Expected</p> <ul style="list-style-type: none"> • Children can use technical vocabulary to explain how beam bridges are constructed. • Children can evaluate their models against established design criteria. • Children can use technical vocabulary to explain how arch bridges work. • Children can evaluate the design of others and consider their views. • Children can design a prototype model according to design criteria. • Children can consider the views of others and think of ways to improve their work. 	
Pupils		
Knowledge and understanding is	<p>Working Towards</p>  <ul style="list-style-type: none"> • Children can investigate and explore the effectiveness of different beam/pillar designs. • Children can apply their knowledge of how to stiffen and strengthen structures. • Children can build and test models to find a strong bridge design. • Children can build a model suspension bridge that will support a given weight. • Children can write design criteria according to a given brief. • Children can evaluate their product according to design criteria. 	<p>Greater Depth</p>  <ul style="list-style-type: none"> • Children can understand the impact better bridge has had on daily life. • Children can use technical vocabulary to explain how truss bridges spread the load of objects travelling across it. • Children can use technical vocabulary to explain how arch bridges are constructed. • Children can explain how tension and compression forces are distributed by suspension bridges. • Children can work collaboratively to produce a prototype according to an agreed design. • Children can devise tests to analyse a product according to design criteria.
Pupils		
<i>Pupils with additional needs have made the following responses</i>		



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