

Structures and Designs

Assignment #5 Beams, shapes and trusses

NAME: _____

Due: _____

Instructions: Answer each question in the space provided.

1. Why are cylinders good at resisting compression?

2. What are buttresses?

3. Why are domes and arches used to make professional playing fields?

4. Why are "T or I" beams more economical to make than a traditional beam?

5. What property does a triangle have that makes it a strong shape?

6. Why does a square become stronger when you add a cross support?

<ul style="list-style-type: none"><input type="checkbox"/> Not complete by due date<input type="checkbox"/> Answers lacked effort and knowledge<input type="checkbox"/> Shows little understanding of strong shapes. More communication or studying is required.<input type="checkbox"/> Redo/complete questions #'s _____<input type="checkbox"/> Parent signature required _____	<ul style="list-style-type: none"><input type="checkbox"/> Completed with accuracy<input type="checkbox"/> More explanation needed for some questions<input type="checkbox"/> Shows good understanding of strong shapes.<input type="checkbox"/> Correct/improve questions #'s _____	<ul style="list-style-type: none"><input type="checkbox"/> Completed with detail<input type="checkbox"/> Excellent explanations given<input type="checkbox"/> Shows excellent understanding of strong shapes.<input type="checkbox"/> Improve questions #'s _____
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