

# Structures and Designs

## Assignment #4 Stress

NAME: \_\_\_\_\_

Due: \_\_\_\_\_

Instructions: Answer each question in the space provided.

1. What are three things that engineers do to test the strength of the buildings they make.

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2. What are thrust lines?

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3. Draw the thrust lines in a chair.



4. What is the difference between a static load and a dynamic load?

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5. Give an example of each.

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6. What is the difference between stress and strain?

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7. List all the types of stress and draw a diagram that explains each stress.

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