



Team ID# _____

MIDDLE SCHOOL STRUCTURAL ENGINEERING ANALYSIS AND ASSESSMENT

PRE-BUILT STRUCTURE

For TEAMS:

How many structures were designed, built, and tested prior to competition?	_____
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Record the weight of the structure designated for competition:	_____
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Predict the ultimate load-carrying capacity of the structure:	_____
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Predict where or how the structure will fail:	_____
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What are the four major types of forces that act on a structure under stress?	1. _____
	2. _____
	3. _____
	4. _____

What is the static load of a structure?	

What part of a testing device should be considered live load?	

What effect would a shorter length test block have during stress testing?	

For JUDGES:

Record the weight of the structure after check-in and prior to testing:	_____
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Record the actual load-carrying capacity of the structure:	_____
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