

STRUCTURAL ENGINEERING – MIDDLE SCHOOL ANALYSIS AND ASSESSMENT

PRE-BUILT STRUCTURE	
For TEAMS:	
How many structures were designed, built, and tested prior to competition?	
Record the weight of the structure designated for competition:	
Predict the ultimate load-carrying capacity of the structure:	
Predict where or how the structure will fail:	
What are the four major types of forces that act on a structure under stress?	
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:	
Record the actual load-carrying capacity of the structure:	