

**BU ENG EK 301 (Fall2022)**  
**TRUSS TESTING PERFORMANCE SHEET**

*Pre-test instructions:*

Student group: Fill out the shaded boxes.

GST/Faculty: Fill out the unshaded/white boxes.

Team members	Present (Y/N)	Section	Test supervisor

**Initial verification of truss**

Requirement	Result (Y/N)	Requirement	Result (Y/N)
Simple truss?		Min. joint-to-joint length > 7 in?	
Acrylic taped properly?		Min. member length > 7 in?	
Geometry matches report?		Span is 30 in	
		Load Joint at 12 in?	
Truss construction (1-10 with comments)			
Truss cost:		Cost < \$295?	
Load/cost ratio:			

**Load testing results**

Minimum load		Failure mass in GRAMS		Failed straw	
Holds 500 g for 60 seconds?		Predicted mass $\pm$ Uncertainty		Predicted members within uncertainty of critical member	
Sags < 2 cm?		Actual		Actual member	
		Difference		Agreement?	
				Failure mode? (buckling, twisting)	