Name: ____ **Date:** __________________ **Class:** _______________

Truss Destruction Worksheet

Your team's truss configuration: ____ (letter and formal name)

1. **Describe** your methods of construction (for example, butt joints, overlapping, notched, combinations) and why you chose those methods.

2. **Rank** your classmates' truss designs and construction (1 = weak, 5 = strong)

Name	Truss Configuration	Shear Performance Prediction					Compression Performance Prediction				
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5
		1	2	3	4	5	1	2	3	4	5

3. Shear Testing Results

Team Member:	1	2	3
Joint Style:			
Weight of Truss 1:			
Failure weight of Truss 1: (shear)			
Shear Strength Ratio: (failure weight / truss weight)			
Describe how it failed:			

4. Compression Testing Results

Team Member:	1	2	3
Joint Style:			
Weight of Truss 1:			
Failure weight of Truss 1: (compression)			
Compression Strength Ratio: (failure weight / truss weight)			
Describe how it failed:			

5. Calculate the normalized strengths for your teams' truss designs:

1-Normalized shear strength: _____ Normalized compressive strength: _____

2-Normalized shear strength: _____ Normalized compressive strength: _____

3-Normalized shear strength: _____ Normalized compressive strength: _____