Engineering Principles
Material Science 7.8.1
Composite Beam Post-Analysis

Name	
Date	Team

Before the walk-through

We will be reviewing the results of our composite beam testing. Look at and identify the materials displayed. What materials do you expect will improve the beam strength?

Look at the beams. Which beam do you think was the strongest?_____

During the walk-through

Carefully inspect each beam. In the grid below identify materials used in each of the designs. Note the weight that the beam supported before it collapsed. Note anything else that you think might be relevant that you observe from looking at or handling the broken beams.

Beam ID#	CTRL	1	2	3	4	5	6	7	8	
Strength(lbs)										
Density (l,m,h)										
Hardness (l,m,h)										
Sand										
Gravel										
Steel Wire										
Fiberglass										
Carbon Fiber										
Newspaper										
Pipe Cleaner										

Notes:

After the walk-through

What were the common elements for the stronger designs?

What was unique about the strongest design?

What did you notice about the weaker designs?

Identify factors **outside of material choice** that affected the outcome.

What surprised you? What did you learn that was different than you expected?