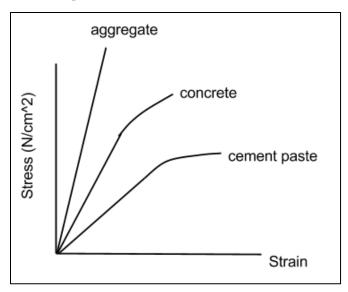
Name: _	Date:	

Building a Stronger (Sweeter) New Orleans Activity — Stress vs. Strain Worksheet

Directions

Use the following graph to answer questions 1-7.



Questions

For each of the following questions, please use complete sentences and explain your answers.

Which of th	oso is a sammasitat-	mio19 Evaloia vere		
Vhich of the	ese is a composite mate	erial? Explain your	answer.	
Which of the	ese is a composite mate	erial? Explain your	answer.	
	ese is a composite mate			

ıme:	Date:
Which is the stiffer material? Explain.	
Which of the three materials would you prefer to use for	r building? Explain.
The stress vs. strain curve for the cement flattens out at	the end. Explain what this means.
The sample of cement that was used to generate data for long. Imagine that you are given a sample that is wider be different for this sample? Explain.	<u> </u>
You are given two unknown materials, labeled A and B. N/cm ² and material B has a Young's modulus of 2 N/cm • In the box below, sketch a graph of stress vs. strain.	² . Each material is initially 4 cm long.
In the cox celow, sheeten a graph of suess vs. sham	Which material compresses more if a pressure of 2 N/cm² is applied to it? Explain in words or show calculations support your answer.
	Which is the stiffer material? Explain. Which of the three materials would you prefer to use fo The stress vs. strain curve for the cement flattens out at The sample of cement that was used to generate data for long. Imagine that you are given a sample that is wider be different for this sample? Explain. You are given two unknown materials, labeled A and B