Building Bridges

Testing & Analysis

Answer the following questions in as much detail as possible. Questions are worth 10 points each toward a test grade.

1. Sketch a side view of your final bridge design as constructed.

- 2. How would you describe the bridge you have designed and constructed for this project? (i.e. arch, truss, suspension, etc.)
- 3. Because you were not able to use glue in the construction of your bridge, your group needed to devise some sort of system or systems to fasten different materials together. Describe and sketch in detail the method or methods your group used to fasten materials together.

4. Describe how your group tested the design prior to the class testing day. What improvements did your group need to make?

5. In your opinion, what was the most limiting factor of this project? Explain why you think this factor was limiting.

6. How could you now redesign your bridge to reduce the cost? By how much could you possibly reduce the cost of the bridge? Please provide specific ideas.

7. Was your bridge successful in holding the static load of the brick at three different points? Why or why not?

8. Was your bridge successful in holding the dynamic load of the brick riding across on wheels? Why or why not?

9. What could your group have done better during this project?

10. How would you suggest this project could be improved for future classes? Honest criticism is appreciated.