

## **Bridge Building Project**

### Procedure:

Build a bridge using the West Point Bridge Program. The bridge must support the weight of the truck as it passes over. You will also be trying to build the bridge for the least amount of money possible.

While building the bridge you should document your trials as well as the reason for your design. Make sure to comment on any errors and how you corrected them. The use of math terminology will be helpful for your grade.

After completing your bridge your group will need to complete a write-up and prepare a presentation.

### Write-up:

Your write-up should contain the following information:

- Introduction: Group discussion of design and strategy.
- Document all trials, errors, and corrections made on bridge. Also, discuss the mathematical reasoning behind your design.
- Make sure to mention the cost-effectiveness of your design (Print out, or copy and paste, the cost calculations report and add to your write-up.
- Conclusion: Sum up project and give details of all members' contributions to the project.

### Grading:

- 30% Bridge Design (cost-effectiveness)
- 30% Presentation
- 30% Write-up
- 10% Individual effort