Bridge Building Alternative:

Upload the simulation from: https://bridgecontest.org/resources/previous-versions-of-the-software/

1. Create a bridge from the simulation and test the bridge with providing a load on the bridge. (the load will not be available if your bridge is unsuccessful).
2. Once you have tested the bridge Write a report with including the following:
   1. Design brief: include a description of the problems and constraints
   2. Research summary: summarize your research related to material selection and bridge truss design
   3. Final bridge design: include copies of the final design including the following reports: load test results report
   4. For your conclusion answer the following questions: How does the type of material and direction of the stress applied affect the selection of the material type and the cross-sectional area? How can the forces of compression and tension work together to make a stronger bridge (state Newton’s First Law in this answer)?

3. Your report should be no less then 1 page and no more then 2 pages double spaced with word font size 10.