

West Point Bridge Designer WPBD 2013

<http://bridgecontest.usma.edu/download.htm>

The West Point Bridge Designer is provided and intended solely for educational use.

Use of the West Point Bridge Designer does not constitute endorsement by the United States Government, the Department of the Army, or the United States Military Academy of any project or design.

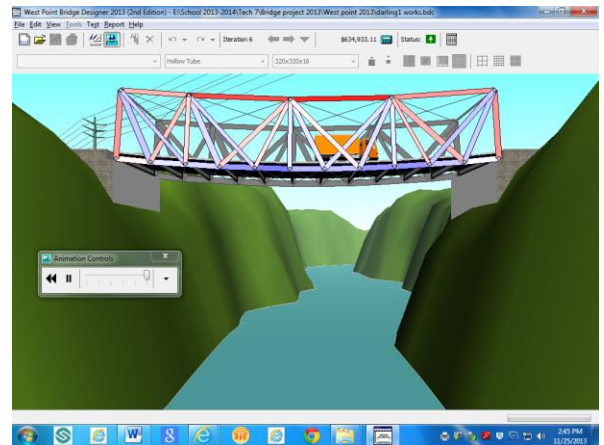
Use of the West Point Bridge Designer for commercial or construction purposes is strictly prohibited.

→ Class Problem/Goal

Design and construct a bridge with West Point Bridge Designer WPBD 2013 that passes the load test and is the least expensive. You must design a bridge that holds a truck and is less than \$400,000

→ Rules/Limitations (Default Settings)

- Deck Elevation (24 Meters)
- Support Configuration
 - Standard Abutments
 - No Pier (one Span)
 - No Cable Anchorages
- Deck Material
 - Medium strength Concrete
- Loading
 - Standard 225 kn Truck (Two Lanes)
- NO Truss Template May be Used in Your Final/ Competition Design
 - You may use a template to experiment with different designs
- Grading
 - There is no separate grade for west point. It is part of the application of research and all print outs from each member should be in your design journal.
 - You must design a bridge that holds the truck and is less than \$400,000. If you do this make sure the instructor sees the truck drive across your design. Make sure your name is on the TITLE BLOCK in all CAPS and you get the instructor to sign the print out. Once you have done this you will receive \$250 in Tech money and this bridge is eligible for the overall class competition where 1st place is worth a prize and another \$500 in tech money.



All West Point print outs should be part of your design Journal. Each group member is to have at least one print out in the journal with their name on it.

→ ***The purpose of using this program for our class is to experiment, (trial & error) with shapes/designs. You are NOT using West Point to design the exact bridge that you will build!***