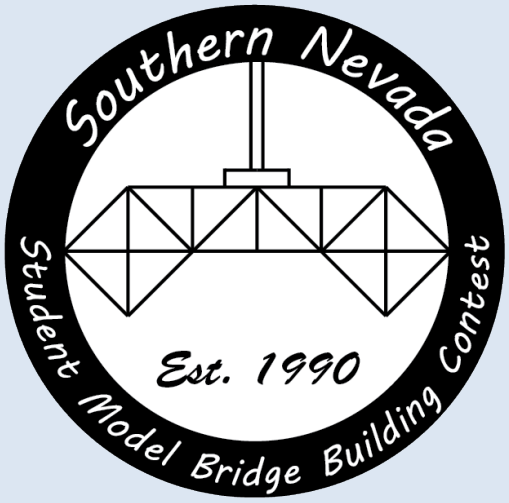


# TEACHERS WORKSHOP 2026

ILLINOIS INSTITUTE OF TECHNOLOGY

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

ASCE
American Society of Civil Engineers

UNLV

# 2026 Teachers Workshop

www.modelbridgecomp.com

Twitter: @702Bridge

# Introductions


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# Description of Bridge Kits

- 15 Sticks of Bass Wood
- 1 Bottle of Glue
- Cost: $5
- Money supports the competition
- Contact: Walt or David

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# Rules Overview

# Loading

- Load will be applied to loading plane from above with the loading plate centered over one of the loading locations.

**Loading Plate**

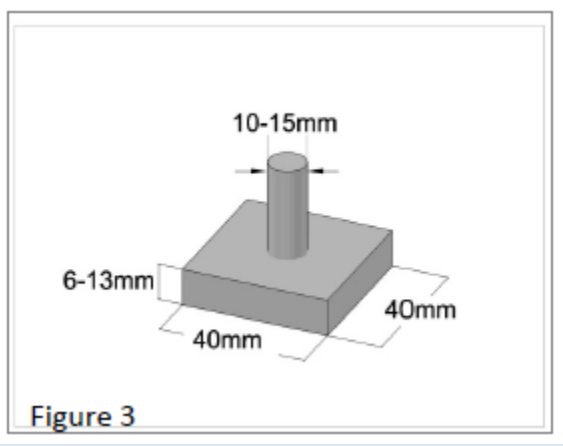


Figure 3

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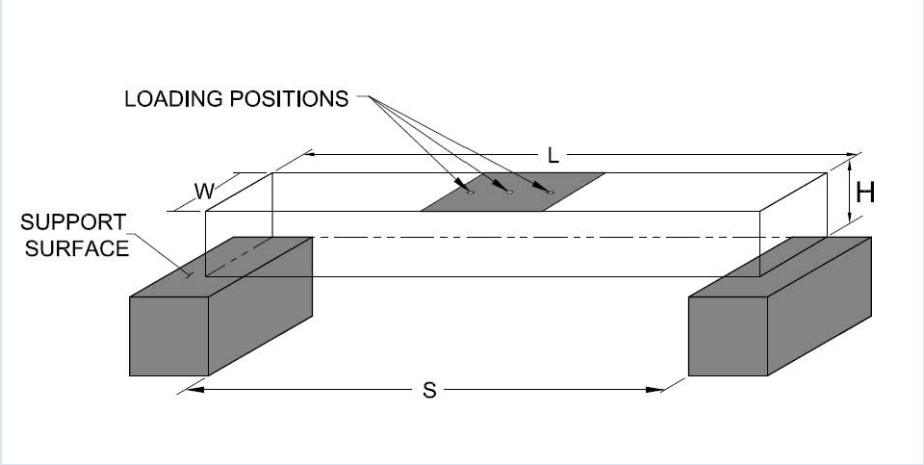
# Elementary School Division

- Max Weight: 30 grams
- Span (S) > 300 mm
- Length (L) ≤ 400 mm
- Height (H) ≥ 50 and ≤ 80 mm
- Width (W) ≥ 30 and ≤ 60 mm



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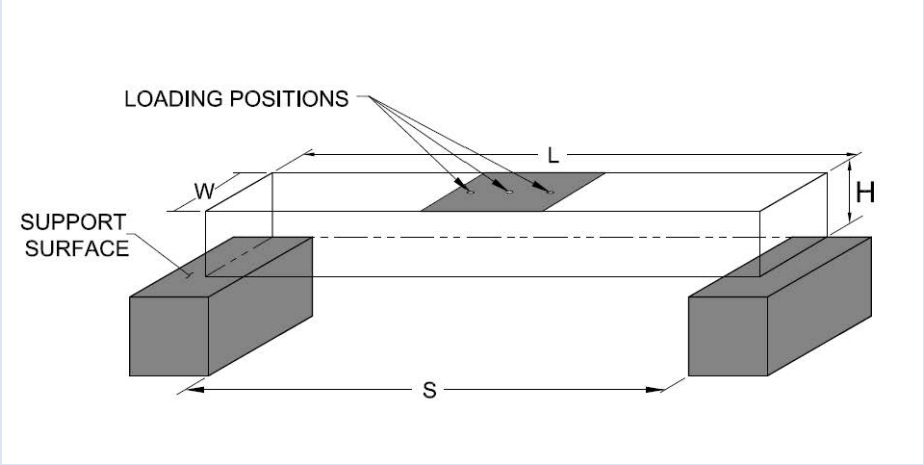
# Middle School Division

- Max Weight: 25 grams
- Span (S) > 300 mm
- Length (L) ≤ 400 mm
- Height (H) ≥ 50 and ≤ 80 mm
- Width (W) ≥ 30 and ≤ 60 mm



# ES and MS Division

- Loading Alternatives:
  - Center of Bridge
  - 50 mm to the right of center
  - 50 mm to the left of center

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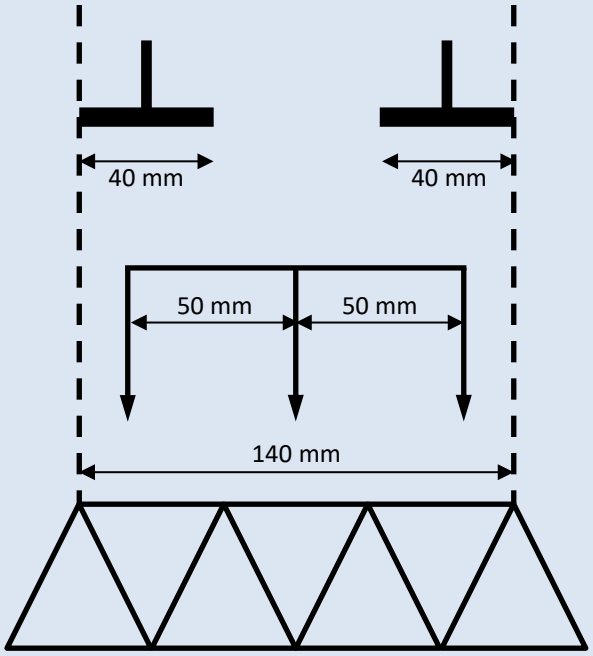
## Top of Bridge Length Calculation




- Three Loading Alternative: center, and 50mm to left and right of center.
- Loading Plate is 40 x 40 mm and will be centered at loading position. (40/2 = 20 mm)

Top of Bridge Length = 50 mm + 50 mm + 20 mm + 20 mm **= 140 mm**

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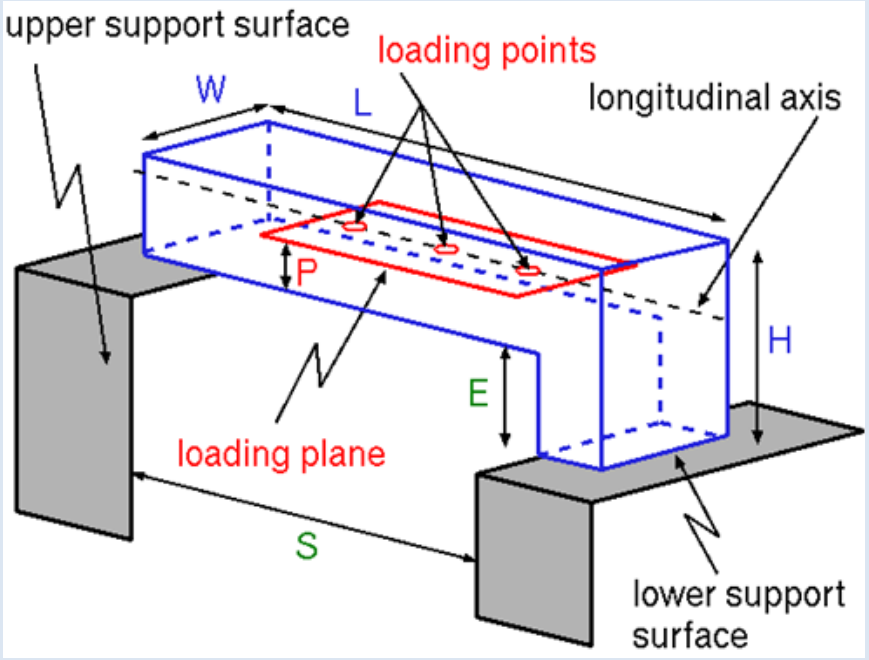
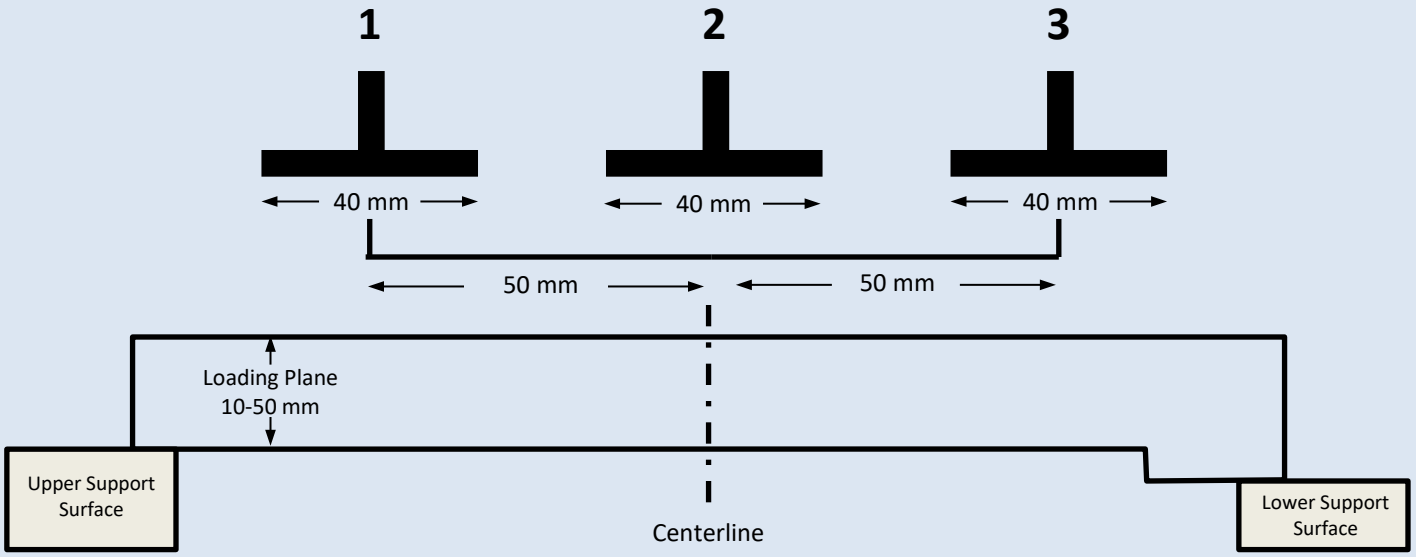
# High School Division

- Max Weight: 25 grams
- Span (S) > 300 mm
- Length (L) ≤ 400 mm
- Height (H) ≤ 150 mm (above LOWER support surface)
- Width (W) ≤ 80 mm
- Support Surface Offset (E) = 10 mm
- Loading Plane (P): 10 to 50 mm
  (above UPPER support surface)



# High School Division

- Loading Alternatives Horizontal Loading Plane:
  - 1: 50 mm to the left of center
  - 2: Center
  - 3: 50 mm to the right of center
- Horizontal Loading Plan between 10 and 50 mm above upper support surface
- Load will be applied at one of the three loading alternatives.



# Qualification Overview

# Qualification Overview

- Specifications will be checked prior to testing
- For the purposes of INDIVIDUAL scoring, only ONE bridge is allowed per student.
- For the purpose of TEAM scoring, multiple bridges from student(s) will be accepted for the team's average score, given the following:
  - A school cannot field the minimum amount of bridges from the participating students.
  - The additional bridge is of a different design than the student's first bridge.
- All bridges submitted must appear to have a unique design.
- Any school submitting bridges designed from template will face disqualification.

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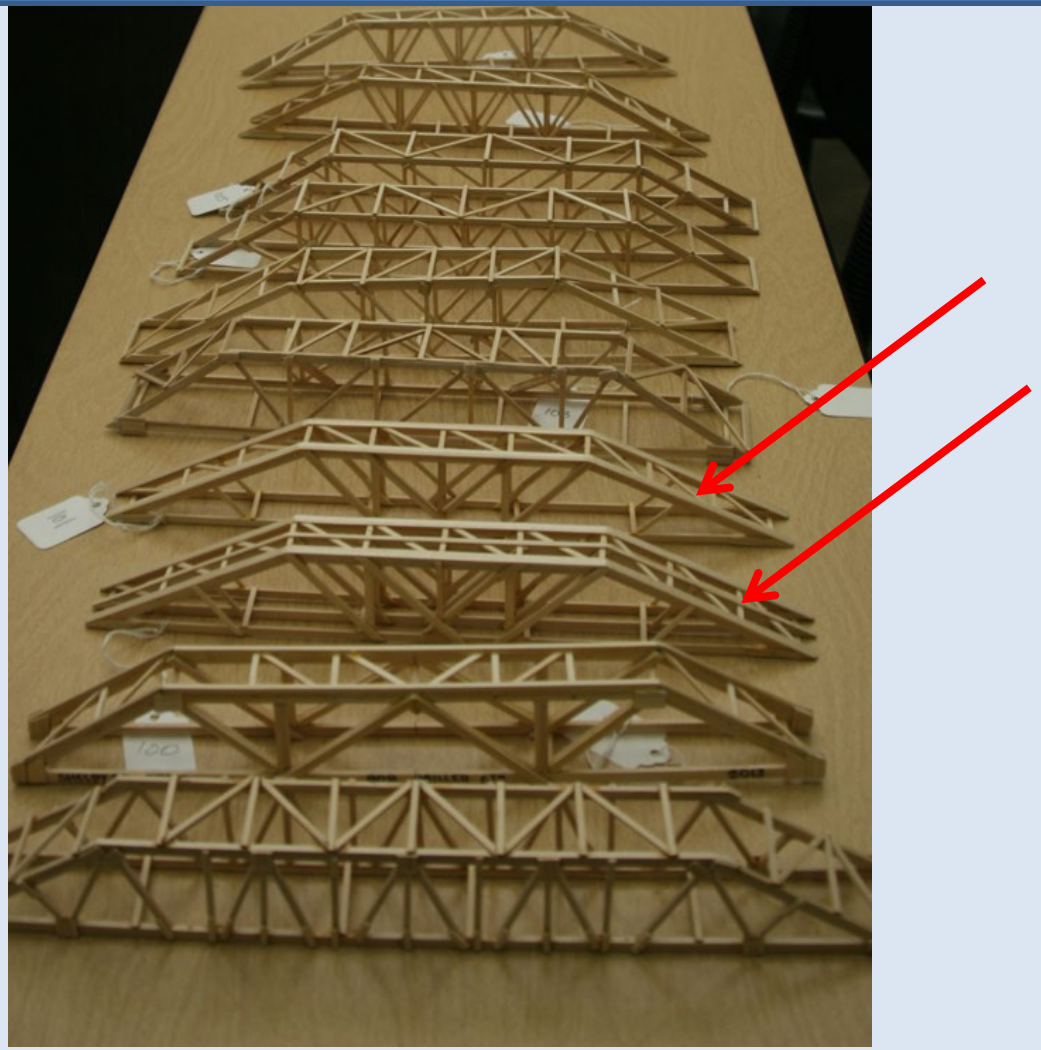

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# Testing Overview

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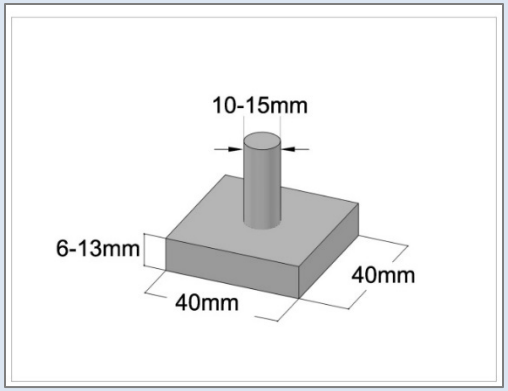
# Vertical Loading Testing Machine


*"I find a certain joy in destroying the hard work of others"*

*– Tanner Hartranft*

# Testing Procedure

- The bridge will be centered on the support surface
- The loading plate will be placed on the bridge at one of the loading alternatives previously described.
- The load will be steadily applied from above from the loading plate.
- Bridge with the highest structural efficiency (E) will be the winner:
  - **E = Load supported in grams / weight of the bridge in grams**



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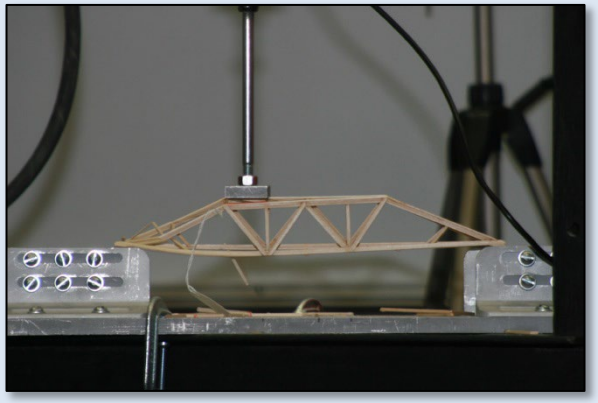
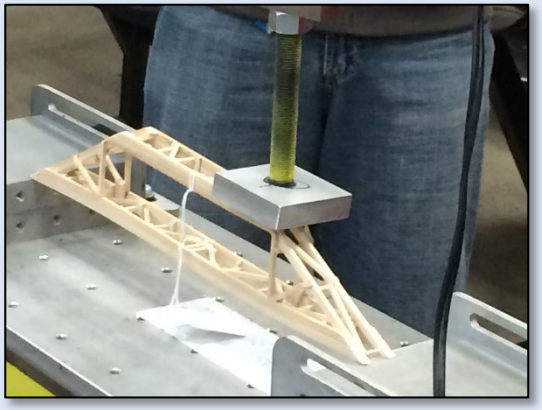
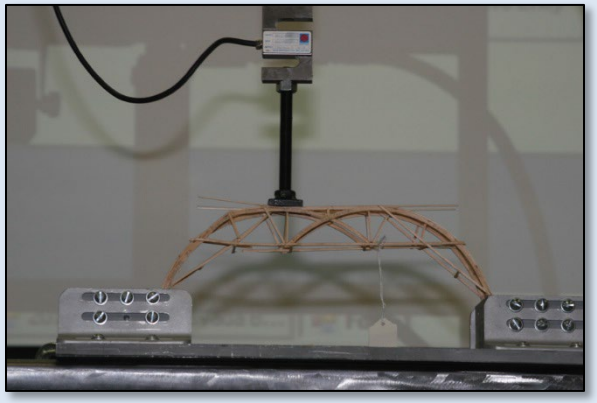
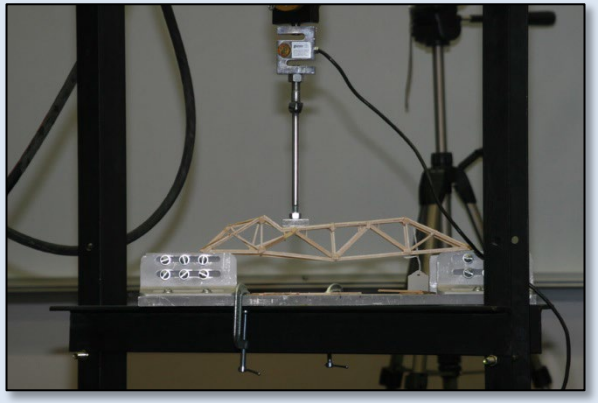
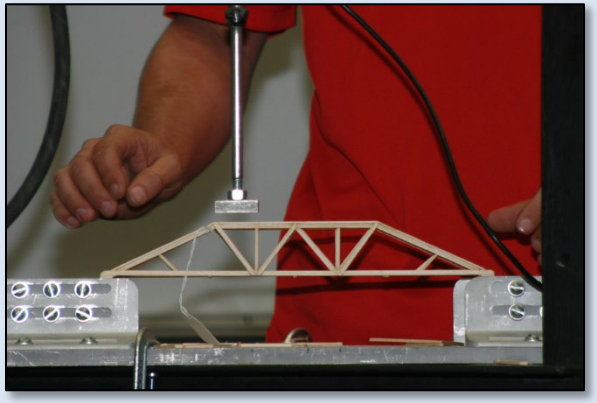
# Testing Examples











# Results and Awards

# Results and Awards

- Elementary and Middle School:
  - A school competition banner will be awarded to the school with the highest average efficiency for its best 5 bridges.
  - An Individual award will be given to the highest performing bridge from each school. A school must field at least three bridges for a student to be eligible to receive an individual award.
- High School:
  - The two highest performing bridges will be eligible to represent the southern Nevada region at the 2026 International Competition.
  - Travel expenses for the student and one chaperone will be paid for by the SNMBBC.

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# 48th International Bridge Building Contest

Chicago, Illinois

Saturday, April 25, 2026

# Closing Remarks

- Registration Closes: **February 20, 2026**
- Day of Contest: **Saturday, March 7, 2026**
- Location of Contest: UNLV College of Engineering
- Be sure to check the FAQ page of our website
- Follow us on Twitter @702Bridge

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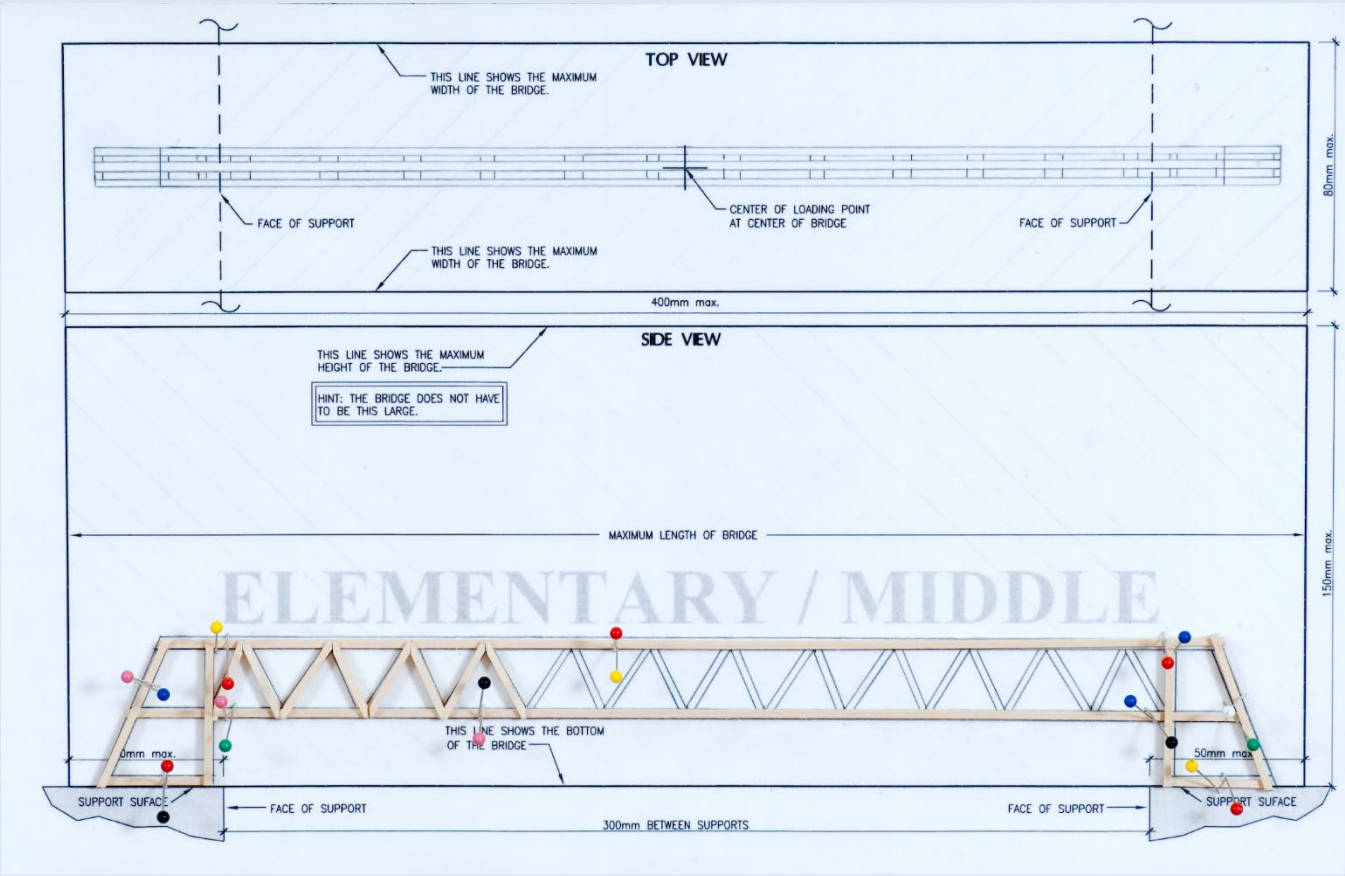
# Extras



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# Extras