Strength  Endurance  Commitment  Courage  Force  Stamina  Assurance  Strength

Banzai

Ben Hudspeth
Matt Sanders
Taylor Woodland
Dana Boozer - Teacher
What is TRAC?

TRansportation And Civil Engineering

- 7th Grade Career Discovery
- TRAC PAC - Bridge Builder
- ModelSmart Software
Drawbridge Challenge Criteria

• Bridge Span – 15 inches
• Testing
  □ Lifting – 4 inches
  □ 2 inches wide by 1 inch high
We designed a truss bridge.
It’s all About the… **RATIO**!

Breaking Load – 19.434 lbs
Structure Weight – 4.691 grams

\[ \text{Ratio: } \frac{(\text{Breaking Load} \times 454 \text{ g/pound})}{\text{Structure Weight}} \]

Ratio: 1880.84
Drawing the Bridge

Scaled Drawing –
• Drawing Grid
• Plotting joints
• Scaled drawing
Cut...Glue...Connect
Here it is...

- bridge complete
- landscape bound
Where in time does our bridge belong?

- 1930s Time Period
- Single Span
- One Way Road / Deck
Landscape
Questions?