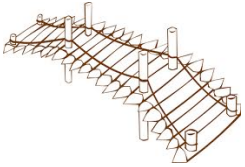
ENGINEERING 101: STRUCTURES!

Carpe Diem! Seize the Day!



ENGINEERING! ***Design a bridge that is capable of holding a large amount of weight!!***

Name of your bridge:

*Design your **bridge** below:*

Draw a vehicle that will travel on your bridge here:

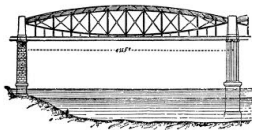
Type to enter text

Use the adjective word list to describe your bridge!
EX: The Barribeau Bridge is durable

Design your popsicle stick bridge model below!

Name:

On the back make an ad for your bridge ! Include 5 adjectives, an imperative, declarative, interrogative, and exclamatory sentence with 5 illustrations!



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ENGINEERING! ***Draw a scale of the surface of a bridge!!***

Actual Factory Dimensions: Length =70 feet Width = 30 feet **Scale Dimensions:** *Scale: 10 ft = 1 cm*

Length = 50 feet	Width = 30 feet	Height = 20 feet
10 ft / 1 cm = _____	10 ft / 1 cm = _____	10 ft / 1 cm = _____

Scale Measurements: *Find measurements for one rectangular blueprint design!*

----------Scale Drawing----------

Draw one rectangle and shade 4 centimeters that represent points of traffic .

Fraction of shaded squares!	**Reduced Fraction**
Fraction = _____	____ ( ) = ____ ( ) =

Perimeter = total length in cm	Area= width X length in cm^2	Volume= *width X length X height* in cm^3
Work and Label	Work and Label	Work and Label

After completing the work, make your bridge!

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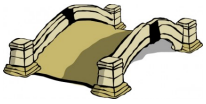

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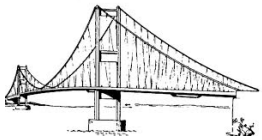

Carpe Diem! Seize the Day!

Bridge Paragraph! Tell us why your bridge is strong!

Sentence 1: **The Lead:** ***(Get your reader interested)***

Sentence 2: **Topic Sentence:** ***(Tell us the main reason your bridge will be successful! Also introduce your bridge's name)***

Sentence 3: **Supporting Details / Example:** ***(Write a detail or example that supports the topic sentence!)***

Sentence 4: **Supporting Details / Example:** ***(Write a detail or example that supports the topic sentence!)***

Sentence 5: **Summation Sentence:** ***(Review (using different words) why your bridge will be successful!)***

Put it altogether! Now, indent and write a complete paragraph!

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Research: Based on your research! Write down important facts that pertain to stuctures!

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