



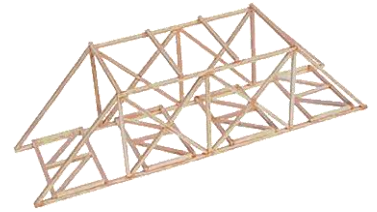
Exploring Technologies

Western Technical-Commercial School

Name: _____

Date: _____

Section: _____



Bridge Evaluation

Bridge Specifications

Fill in the following on your bridge:

Bridge length _____ cm

Bridge width _____ cm

Bridge road height _____ cm

Bridge height above road bed _____ mm

Bridge Height below road bed _____ cm

Bridge weight _____ grams

Centre clear for support rod Yes or No?

Bridge style/type that it closely represents (circle one below)

King Post Warren Truss Pratt Truss K Truss Howe Truss

Bridge Craftsmanship circle for peer, square for self-evaluation:

1 2 3 4 5 6 7 8 9 10

Strength to Weight Efficiency Score

Failure weight supported in Pounds _____ * 453.59 = _____ grams

Failure weight _____ Grams

Efficiency (E) = _____ = _____ Efficiency

Weight of bridge _____ Grams

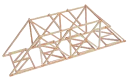
Where did it ultimately break first, then after, what part of the bridge broke?

Explain what started to happen prior to bridge breaking, did it twist, crack, etc?

Was it a weak joint? Either way describe what happened and why.



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Could the bridge's efficiency be improved, and if so, how (give three improvements)?

Sketch below how you would improve your design to increase efficiency: