Engineering Bridges Final Project Report

Name:_____ **Partner Name:**_____

To pass this class you must turn in all of the following by LUNCH on Monday November 10th!

(1) This report

(2) one print out of your bridge design from the software

(3) one copy of your hand drawn blue prints

Answer all of the following questions on this paper. Your answers should be detailed and complete, no single word answers.

1. Describe the type of the bridge you designed and the materials you used.

2. Which geometric shapes did you use in your bridge? Why?

3. Describe how your bridge broke.

4. Weight of your bridge in grams:_____

   Weight of your bridge in kg:_____

   Max load of your bridge in kg:_____

5. Calculate the Efficiency of your bridge

$$\text{EFFICIENCY}=\frac{\max load\ of\ bridge\ (kg)}{weight\ of\ bridge\ (kg)}$$

6. Use the table below to think about bridge efficiency:

STRENGTH	EFFICIENCY
Really Freaking Strong	Over 1000
Super Strong	750 – 999
Strong	500-749
Good	400-499
Okay	250-399
Weak	100 -249
Really Weak	0 – 99

Which strength category does your bridge fall into?

Are you happy with your bridge's efficiency?

How could you have improved the efficiency of your bridge?

7. Would you make any changes in the design of your bridge

8. What were some challenging parts of the final project?

9. Rate your partner on a scale of one to ten:_____ Why did you give your partner this rating: (if you had two partners, rate them both individually)

10. If you had to give yourself a rating from 1 to 10 on your group work what would it be:_____ Explain:

11. How do you feel about this class overall? If you had to give this class a grade what would it be:_____ Explain:

12. What is your biggest take away from this class?