Name: **Date:** **Class:**

Team: _____ _____ **Date:** _____

_____ _____ **Group/ Section:** _____

Investigative Questions

(1). When you were doing the truss strength calculation, were all the truss elements under the same compression-stress?

(2). Did you notice any difference when you changed a round element by a square elements of the same thickness, or vice versa?

(3). Can you estimate how much?

(4). Why do you think the square element is stronger?

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(5). How many times is the area of a square of side L greater than the area of a circle of diameter L?

(6). Considering your answers to the previous questions, what can you do to increase the strength of your bridge, without changing all the diagonal elements, and keeping the thickness requirement?