Structural Engineering – April 3, 2019

Team Verification Form

Team # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Individual Team Members ID #’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

These numbers will be assigned when registered for the state conference

This document takes the place of the Middle School Verification and High School Assessment forms that are required for national contestants. You do not have to bring a premade structure to the state conference.

You are required to build and test at least one structure meeting this year’s problem statement which is posted on the national website. This link should work but if not the Problems Statement was emailed to instructors.

|  |  |
| --- | --- |
| [Middle School Problem Statement](https://tsaweb.org/docs/default-source/themes-and-problems-2018-2019/themes/tsa-middle-school-structrual-engineering-problem-statement-2019.pdf?sfvrsn=6b61c31e_0) | [High School Problem Statement](https://tsaweb.org/docs/default-source/themes-and-problems-2018-2019/themes/2019_tsa-hs-structural-trestle-problem.pdf?sfvrsn=6e264a75_0) |

Answer the following questions:

How many structures did you build and test at your school? \_\_\_\_\_\_

How much did your most successful structure weigh? (Mass Weight) \_\_\_\_\_\_ Grams

What was the maximum weight held by the strongest structure tested?

(Failure Weight) \_\_\_\_\_\_ Pounds

Using this formula what was your structures efficiency?

Failure weight \_\_\_\_\_\_\_\_ x 4.54 = \_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_ Mass Weight = \_\_\_\_\_\_\_\_ Efficiency %

* **Staple a photograph of the side view of your completed structure sitting on the testing apparatus to this form.**

Teachers Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_