

2011 Towers Score Sheet (rev. 10/2/10)

School Name _____ Circle One V JV1 JV2 JV3

Students _____

Check-in Construction Parameters

- 3.a.e. Tower supports loading block supporting a chain _____
- 3.a. Loading block is ≥ 50.0 cm above the test base _____
- 3.b. Tower spans a 20.0 cm x 20.0 cm opening on test base _____
- 3.d. Portion of the tower above 30.0 cm for Division B and above 15.0 cm for Division C passes through 8.0 cm diameter hole _____
- 3.g. Tower is a single structure _____
- 3.h. Tower is constructed of wood and glue only _____

5.c. The mass of the tower is _____ (in grams to the nearest 0.01 g) **(MT)**

Operation

- 2.b. Team members wear proper eye protection _____
- 3.c. Tower not braced against any edge of the test base _____
- 3.c. No portion extends below the top surface of the test base _____

5.h. Mass of load supported is _____ (in kg to the nearest .001 kg) **(ML)**
Maximum load is 15.000kg, even if it holds more

Scoring

$$\text{Score} = (\text{Load Supported})^2 / (\text{Mass of Tower})$$

$$\text{Score} = \left(\frac{\text{_____}}{\text{Mass of Load (ML)}} \right)^2 / \frac{\text{_____}}{\text{Mass of Tower (MT)}} = \text{_____}$$

Tier (Circle One): **TIER 1** **TIER 2** **TIER 3**

Final Rank: _____ **(Tie is broken by the lightest tower mass.)**