

Pasta Tower Score Sheet – 2019 *(revised 7/16/18)*

School Name: _____ Team (Circle One): Varsity JV1 JV2 JV3

Student Names: _____

Safety Criteria: Teams must wear proper eye protection at all times during launches. No dangerous objects or substances are used. If this criteria is violated, then the device can not be tested.

Are all safety criteria met by the team and device? _____ If yes, continue.

Mass of tower: _____ g

| | YES | NO |
|--|-------|-------|
| 1. The tower is to be a single structure constructed of ONLY pasta, multi-purpose glue, and/or hot glue. | _____ | _____ |
| 2. The tower is free standing and spans a 10.0 cm opening while resting <u>on top</u> of the testing platform. | _____ | _____ |
| 3. The tower is ≥ 30.0 cm in height <u>and</u> does not extend below the top of the testing platform when unloaded. <i>(circle violation if there is one)</i> | _____ | _____ |
| 4. The tower supports the loading block and chain assembly at the center of the top and allows chain to hang freely. | _____ | _____ |

Teams with a “no” checked above will be placed in Tier #2. **Tier =** _____

Teams with no eye protection or who continue to remove eye protection after warnings or devices that can not be tested will be given participation points only. **Participation only?** _____

If the team left the area or received outside help during loading, then check here for disqualification. **DQ?** _____

Check the reason testing stopped: _____ Time expired _____ Tower failed _____ Load held

Maximum mass to be supported = 10,000 g.

$$\frac{\text{_____ g}}{\text{(mass supported)}} \div \frac{\text{_____ g}}{\text{(mass of tower)}} = \frac{\text{_____}}{\text{(Structural Efficiency)}}$$

Tier (Circle one): 1 2 P DQ **Final Rank:** _____
(Ties broken by the lowest bridge mass)