

National Science Olympiad 2015 – Wheeled Vehicle B

Supervisors will record this information for each team & each team is encouraged to use this form as a **pre-tournament Checklist!**

Supervisors can also record the numbered items below on the Wheeled Vehicle excel spreadsheet found at www.soinc.org

Team Number: B_____ Team Name: _____

Student Names: _____ Final Score: _____

Other

6.h. The vehicle, extra elastic devices and interchangeable parts needed to adjust the vehicle are impounded before the start of the competition. **1. Y N**

Construction Parameters

General

3.a. Vehicle is designed as a single integral device. **Y N**

3.b. All energy used to propel the vehicle is stored in a non-metallic elastic device, and any metallic parts attached to the elastic do not provide energy to the vehicle and any pre-loaded energy storage devices do not provide energy to propel the vehicle. **Y N**

3.h. The vehicle is not remotely controlled or tethered. **Y N**

3.i. No electrical or electronic devices are used on the vehicle, its alignment devices or any tools (except calculators) and the stopping mechanism works automatically. **Y N**

Individual Runs

3.c. All wheels fit in a ready to run configuration in a 25.0 cm x 60.0 cm space. **Run 1 Run 2**
Y N Y N

3.d. A single ¼ inch wooden dowel is attached to the front end of the vehicle and is approximately perpendicular to the floor and is the leading part of the vehicle at all times. The dowel extends ≥ 35.0 cm from the floor to interrupt the laser and extends to within 1.0 cm of the track's surface **Y N Y N**

3.e. No part of the vehicle, except a dowel attachment device ≤ 2.0 cm, extends beyond the front of the ¼ inch dowel during its entire run. **Y N Y N**

3.f. Competitors start the vehicle by using any part of an unsharpened #2 pencil to actuate a trigger and the trigger is designed so that its actuation is perpendicular to the floor. The vehicle remains at the starting position without being touched until triggered. **Y N Y N**

3g. The only things that touch the floor are the wheels and any drive strings and elastic material with attachment clips. **Y N Y N**

IS THIS RUN FREE OF ALL CONSTRUCTION VIOLATIONS 2. Y N 10. Y N

The Competition

5.b. Competitors do not leave the area or receive outside assistance, materials, or communication once competitors enter the event area. **Y N Y N**

5.f. Competitors do not roll the vehicle on or adjacent to the track surface between the start and finish line at any time prior to or during the competition. **Y N Y N**

5.g. Substances that may damage the floor or interfere with subsequent runs are not applied to the wheels or floor. **Y N Y N**

5.h. Competitors place the tip of the Vehicle's Measurement Point on the Start Line. **Y N Y N**

5.i. Sighting and/or aiming devices placed on the track are removed before the vehicle begins its run. **Y N Y N**

5.m. Competitors do not follow the vehicle down the track once the vehicle starts a run and wait until called by the Event Supervisor to retrieve it. **Y N Y N**

5.o. Does the vehicle pass the 8.50 m Line? **Y N Y N**

NUMBER OF YES'S UNDER THE COMPETITION FOR THIS RUN 3. _____ 11. _____

Run Parameters

6.b. Measured time in seconds (to the precision of the timing device) **Timer 1 4. _____ 12. _____**
If the vehicle does not pass the 8.50 m Line, timing stops when the vehicle stops **Timer 2 5. _____ 13. _____**
Timer 3 6. _____ 14. _____

6.c. Distance (point to point) from Measurement Point to Finish Point in cm (to the nearest 0.1 cm) **7. _____ 15. _____**

5.l. Was this run a Failed Run (e.g. vehicle travels in the wrong direction, the run didn't occur within the 8 minutes, time or distance cannot be measured for the vehicle, started before the Event Supervisor is ready, does not go at least 0.50 m, competitors pick the vehicle up before it is measured)? **8. Y N 16. Y N**

6.d. Did the team wear eye protection at all times? **9. Y N 17. Y N**

Other

General Rule 9. Disqualified (notify the team and their coach as soon as possible). **18. Y N**