

Team Number: C School & Team Name: _____

Student Names: _____

Check In

1. T F 6.j. Team has a device and makes an honest attempt to test a device.

Construction Parameters:

T F 2.a. Team impounds one device and all components that are integral to its operation (e.g. water, sand, etc.).

T F 3.g. The impounded device and any storage boxes are clearly marked with the team's school name and competition number. At impound, the device and all impounded components fit into an 80.0 cm x 80.0 cm x 80.0 cm cube and are moveable by the competing team members without outside assistance.

T F 3.e. The device is constructed to be able to provide a single distinct audible and/or visual signal that will occur three times at equally spaced time intervals set by the Event Supervisor. Each occurrence of the signal is the same event produced by the same mechanism. The device itself produce the signal and the participant does not call out when the signal has been reached. The signal is distinct in that it only occurs at the end of each of the equally spaced time intervals.

T F 3.a. The device does not contain electrical or electronic components. Electrical/electronic tools may be used for setup, calibration, & preparation before & between the time trails, as long as they are removed prior to the start of the time trial.

T F 3.b. Commercial counters, tally devices, timepieces, and their parts are not used.

T F 3.c. The device is designed, constructed, and operated so that it does not damage or alter the competition area, contains spillage, and minimizes possible impacts on other teams.

T F 3.d. The device is designed and constructed so that it does not require manual intervention during a time trial.

T F 2.e. Participants is able to answer questions regarding the design, construction, and operation of the device.

DEVICE MEETS ALL CONSTRUCTION PARAMETERS ABOVE DURING INSPECTION

(Devices that do not meet construction specs will not be allowed to be tested until brought into specification. If any construction violations are corrected during the competition block, circle F. If the device is not brought into specification during the competition block, leave items 4-13 blank and do NOT enter into the spreadsheet.)

2. T F

Competition Parameters:

3. T F DEVICE MEETS ALL COMPETITION RULES

| | Time Trial 1 | | | Time Trial 2 | | |
|--|-------------------------------|----------------|----------------|-------------------------------|----------------|----------------|
| Selected Time | 4. _____ | | | 15. _____ | | |
| | <u>Timer 1</u> | <u>Timer 2</u> | <u>Timer 3</u> | <u>Timer 1</u> | <u>Timer 2</u> | <u>Timer 3</u> |
| Time from start of the time trial to Device's 1 st Signal (to 0.1 s in sec) | 5. _____ | 6. _____ | 7. _____ | 16. _____ | 17. _____ | 18. _____ |
| Time from start of the time trial to Device's 2 nd Signal (to 0.1 s in sec) | 8. _____ | 9. _____ | 10. _____ | 19. _____ | 20. _____ | 21. _____ |
| Time from start of the time trial to Device's 3 rd Signal (to 0.1 s in sec) | 11. _____ | 12. _____ | 13. _____ | 22. _____ | 23. _____ | 24. _____ |
| Does the participant adjusts the Device? | 14. <u> T </u> <u> F </u> | | | 25. <u> T </u> <u> F </u> | | |

Chart Score

26. _____ 6.f.i. Of one graph/table selected by the Event Sup, it includes data spanning the possible time range (up to 2 points)

27. _____ 6.f.ii. Of one graph/table selected by the Event Sup, it includes at least 10 data points in each data series (up to 2 points)

28. _____ 6.f.iii. Of one graph/table selected by the Event Sup, it is properly labeled (e.g. title, team name, units) (up to 2 points)

29. _____ 6.f.iv. Points for each distinct graph/table turned in (0.5 points for each, up to 2 points total)

30. _____ 6.f.v. Includes a proper materials list and diagram and digital fabrication information (if applicable) (up to 2 points)

Part I (Written Score)

31. _____ 6.e. Part I (Written) Score

32. T F General Rule: The team is disqualified. (Notify the team and their coach as soon as possible.)