

WHEELED VEHICLE A



Checklist - 2019

Team Name: _____

Rank: _____

Student Names: _____

Tier/Final Score: _____

| | | |
|--|---|---|
| 5a. The vehicle is impounded before the start of the competition | Y | N |
|--|---|---|

Construction Parameters

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

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|--|---|---|
| 3b. All energy used to propel the vehicle is stored in a non-metallic elastic device, 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 |
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| 3c. The distance between the center of rotation of the front-most and rear-most axels is less than or equal to 65.0 cm. | Y | N |
|---|---|---|

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| 3d. The vehicle has the point of a bent paperclip that serves as a measurement point attached to the front of the chassis that extends down to within 1 cm of the track's surface. | Y | N |
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| 3e. The entire vehicle width is less than or equal to 30cm at all points. | Y | N |
|---|---|---|

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|---|---|---|
| 3h. The vehicle is not remotely controlled or tethered. | Y | N |
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|---|---|---|
| 3h. No electrical or electronic devices are used on the vehicle or its alignment devices and the stopping mechanism works automatically | Y | N |
|---|---|---|

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|---|---|---|
| Is the vehicle free of any construction violations? | Y | N |
|---|---|---|

Competition Parameters

| | Run #1 | | Run #2 | |
|--|--------|---|--------|---|
| Competitors wear eye protection (Z87+) during set-up and testing of vehicle. | Y | N | Y | N |

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|---|---|---|---|---|
| 3f. The vehicle remains at the starting position without being touched until triggered. | Y | N | Y | N |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 3f. 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. | Y | N | Y | N |
|---|---|---|---|---|

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|---|---|---|---|---|
| 3g. The wheels and drive strings (if any) are the only vehicle parts in contact with the floor at any time. | Y | N | Y | N |
|---|---|---|---|---|

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|---------------------------------------|---|---|---|---|
| Are there any competition violations? | Y | N | Y | N |
|---------------------------------------|---|---|---|---|

Scoring

| | Run #1 | | Run #2 | |
|-------------------------|--------|--|--------|--|
| Run Time (sec): Timer 1 | | | | |
| Timer 2 | | | | |
| Timer 3 | | | | |

6b. Straight line distance from Measurement Point to Finish Point to the nearest 0.1 cm

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|---|---|---|---|---|
| 6c. Center tape remains completely within the vehicle's track (between the wheels) during the whole run | Y | N | Y | N |
|---|---|---|---|---|