National Science Olympiad 2009
Electric Vehicle C

Team Number: C__ Team Name: _____

Student Names: _____ Final Score: _____

Do not write below this line.

Violations

1. Electrical energy used is not stored in commercial batteries	Y	N
2. Used more than 4 individual 1.5V cells or 1 single 4.8V at a given time	Y	N
3. Non-electrical energy helps propel the vehicle	Y	N
4. Not all sighting devices are permanently attached in a fixed position or it doesn't travel with the vehicle	Y	N
5. Vehicle's wheel base (distance measured parallel to the direction of travel between the center of rotation of the front and rear axle) is not 30 ± 2 cm	Y	N
6. Vehicle's width (distance measured perpendicular to the direction of travel between the outermost side of the left and right tire of the widest axle) > 20cm	Y	N
7. Does not have a stationary, pointed object extending forward of all other parts of the vehicle to within 1 cm of the track's surface	Y	N
8. Braking system (except for the vehicle's wheels) contacts the floor or tape	Y	N

	Run 1		Run 2	
Does not use a pencil, pen, nor dowel to activate switch	**9.** Y	N	**11.** Y	N
Students push the vehicle to get it started it or follow their vehicle down the track	**10.** Y	N	**12.** Y	N

13. Disqualified (notify the team and their coach as soon as possible)	Y	N

Competition

14. Bonus: "No Electronic Components" Bonus: Yes if students get the bonus (did not use electronic components), No if students do not get bonus (use of electronic components).	Y	N

15. Target Distance in meters (between 5 and 10 meters with 0.01 meter increment) _____

16. Predicted Rate in sec/m (between 1.5 and 4 sec/m in increments of 0.1 sec/m) _____

		Run 1	Run 2
Distance Traveled in meters (to the nearest 0.01 meter)		**17.** _____	**23.** _____
Measured Time in seconds (to the closest 0.01 second)	Timer 1	**18.** _____	**24.** _____
	Timer 2	**19.** _____	**25.** _____
	Timer 3	**20.** _____	**26.** _____
Final Distance in centimeters (to the nearest 0.1 centimeter)		**21.** _____	**27.** _____

Center tape remains completely within the vehicle's track until finish line	**22.** Y	N	**28.** Y	N