

# 2018 Hovercraft Score Sheet



School Name: \_\_\_\_\_ Team (Circle One): V JV1 JV2 JV3

Student Names: \_\_\_\_\_

**Event and Construction Parameters**

2.a. Reference materials secured in a 3-ring binder	Y / N
2.c. Vehicle, graphs, tables are labeled with team name/number and impounded on time	Y / N
2.c. Vehicle impounded in a box ( <b>3-point bonus</b> )	<b>Y / N</b>
2.d. Competitors wear eye protection during set up and testing of vehicle	Y / N
3.a. Vehicle fits into a 40.0 cm x 40.0 cm x 40.0 cm box when levitated with any inflated skirt	Y / N
3.a. Vehicle will not modify or damage the track	Y / N
3.b. The vehicle levitates on a cushion of air	Y / N
3.c. Vehicle has $\leq 2$ propellers and 2 motors	Y / N
3.c. All propeller(s)/impellers, including under device, shielded with holes $< 3/8''$ in diameter	Y / N
3.d. Vehicle has $1/4''$ dowel $< 5.0$ cm from front edge with top $\geq 20.0$ cm above lowest vehicle surface	Y / N
3.f. Only commercial batteries, including rechargeables, $\leq 9.0$ V used. No lithium or lead	Y / N
3.f. No circuit exceeds 9.0 V	Y / N
3.g. No brushless motors or ICs except those embedded into commercial fans	Y / N
3.h. Vehicle has electric switch to start	Y / N
2.f. Competitors are able to answer questions about design, construction, and operation of vehicle	Y / N

**Successful Run 1**

**Successful Run 2**

# of Rolls of Pennies	_____	# of Rolls of Pennies	_____
Timer #1 (nearest 0.1 s)	_____	Timer #1 (nearest 0.1 s)	_____
Timer #2 (nearest 0.1 s)	_____	Timer #2 (nearest 0.1 s)	_____
Timer #3 (nearest 0.1 s)	_____	Timer #3 (nearest 0.1 s)	_____
Did competitors touch vehicle before it passed finish line?	Y / N TS & MS = 0	Did competitors touch vehicle before it passed finish line?	Y / N TS & MS = 0
Run Time (Middle value from above)	_____	Run Time (Middle value from above)	_____

**Penalties**

No successful runs (receive TS and MS of 0)	Y / N
DQed for unsafe operation or no device (receive TS and MS of 0)	Y / N
Construction violations corrected (# of penny rolls multiplied by 0.7)	Y / N
Missed impound (# of penny rolls multiplied by 0.7)	Y / N
Team violated a competition rule during a successful run (TS multiplied by 0.9)	Y / N

**Chart Score**

Total Chart Score (CS, max of 10 points) – see 6.e. in rules \_\_\_\_\_

**I verify this sheet correctly records my team’s vehicle testing data. Print Name and sign in space below.**

\_\_\_\_\_