#### FLINN SCIENTIFIC

Name

# Solar-Powered Cars Worksheet

## Data Table A.

Trial	Distance (m)	Time (s)	Speed (m/s)	Observations
1				
2				
3				
4				
5				
Average				

#### Data Table B.

Trial	Distance (m)	Time (s)	Speed (m/s)
1			
2			
3			
4			
5			
Average			

### **Post-Lab Questions and Calculations**

- 1. Describe the final design of your group's solar car and give a reason for each modification.
- 2. Calculate and record the speed of the car in Data Table B for each of the five trials and determine the average speed.
- 3. Was your final design from Part B faster than the prototype built in Part A? If so, by how much?
- 4. If allowed to make other changes, and more materials were available, what else might be done to improve the car's performance?
- 5. Describe the types of energy involved and how energy is transferred in making a solar car run.

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