

# 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

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