

Solar Car Speed Test

Team Members _____

Your car's name: _____

Period _____

- Mass of your car with motor and no solar panel: _____ g
- Draw a diagram of the gearing used. Label the number of teeth on each gear (pinion/driver gear and follower gear).

- What is the gear ratio on your car? (divide follower/driver)

- Determine your solar car's average speed (meters/ second) for 9 meters using BATTERIES without the solar panel.

Speed of Your Solar Car over 9 Meters with Batteries

Trial #1 (s)	Trial #2 (s)	Trial #3 (s)	Average Time (s)	Average Speed (m/s)

- Determine your solar car's average speed (meters/ second) for _____ meters using a SOLAR PANEL outside.

Speed of Your Solar Car over _____ Meters with a SOLAR PANEL

Trial #1 (s)	Trial #2 (s)	Trial #3 (s)	Average Time (s)	Average Speed (m/s)

- Use the space below and on the back of this paper to describe the kinds of adjustments you made in order to improve the speed of your car.