Changing Speed Data Sheet

1. Chart the time required for the robot to travel two meters using a direct drive arrangement.

Student	Time Required

- 2. What was the average speed for the robot using the direct drive arrangement?
- 3. Chart the time required for the robot to travel two meters using the small drive/large driven gear arrangement.

Student	Time Required

- 4. What was the average speed for the robot using the small drive/large driven gear arrangement?
- 5. Record any observations about the performance of the robot with the small drive/large driven gear arrangement.
- 6. Chart the time required for the robot to travel two meters using the large drive/small driven gear arrangement.

Student	Time Required

Activity 2 – Changing Speed

- 7. What was the average speed for the robot using the large drive/small driven gear arrangement?
- 8. Record any observations about the performance of the robot with the large drive/small driven gear arrangement.
- 9. What general conclusion can you come to about the relative sizes of the drive gear and the driven gear?
- 10. Record any difficulties or obstacles you encountered in adding or changing the gears.