## Hot Wheels Lab

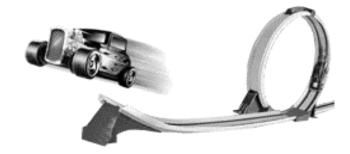
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## Materials:

- Hot Wheel Track Set
- 4 Hot Wheels Cars
- Balance Scale
- Meter Stick
- Stopwatch
- Calculator



## Procedure:

- 1) Working in groups of four record the name, color, length and weight of each of your 4 cars in the data tables below.
- 2) Hypothesize with your group which car you think will be the fastest and why.

Hypothesis: If	(independent variable)	
·		
, then _	(dependent variable)	

- 3) Set up track as demonstrated by your teacher. Have one person release a car at the top of the track while one person at the bottom of the track uses the stopwatch, one person catches the car, and the fourth person records the times. Rotate jobs after each person has timed his or her car.
- 4) To calculate the average time for each car add the three times together and divide by three.

Car #1:
Color:
Length:
Weight:grams
Trial Time #1
Trial Time #2
Trial Time #3
Average Time
Distance

Car #2:
Color:
Length:
Weight:grams
Trial Time #1
Trial Time #2
Trial Time #3
Average Time
Distance

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track. Send each of the cars down and measure how far they go. Record the stopping distance in the appropriate data table for each car above.

Car #4: \_\_\_\_\_

Car #3: \_\_\_\_\_

9)	Was your hypothesis correct?	Why or why not?