

# Calculating Speed of Hot Wheels

Formula: Speed (s) =  $\frac{\text{Distance (d)}}{\text{Time (t)}}$

d = Distance (ft)

t = Time (seconds)

s = Speed (ft/s)



Trial	Height (m)	Distance (ft)	÷	Time (s)	=	Speed (ft/s)
1	0.5	13.75				
2	1.0	13.75				
3	1.5	13.75				
Average						

- Calculate the Speed of your Hot Wheels Car
- Use the following:
  - Distance (measure the length of your track in feet).
  - Time (Use your stopwatch to record the time in seconds).
  - Speed (Use the provided formula to calculate the speed of the Hot Wheels car in feet/second).
  - Complete the 3 trials and calculate the average speed.

## **Demonstrate your knowledge!!!**

Identify in which trial is potential energy the highest? Explain why?

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