

How does the angle effect how fast a car will travel?

Name _____

Date _____

Period _____

Question: At which angle will the car travel the fastest speed?

Hypothesis: _____

Directions: With a meter stick, measure 300 centimeters from the top of the ramp to the floor. Put a piece of tape marking 300 cm on the floor. This is your finish line. Run the car down the ramp at the angle listed below and record the time in seconds it took for the car to pass the finish line



Data: (Remember the distance(D) is always 300 cm.)

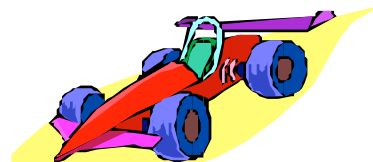
	Trial 1	Trial 2	Avg.	Speed		Trial 1	Trial 2	Avg.	Speed
Angle	Time	Time	Time	$S = \frac{D}{T}$	Angle	Time	Time	Time	$S = \frac{D}{T}$
10°					40°				
15°					45°				
20°					50°				
25°					55°				
30°					60°				
35°					Your choice				

In the blank box below 60 Degrees on your data table choose an angle that you think will cause the car to go the fastest. Do not choose one you have already tested. Try it! Did your car roll faster? _____ Why did you choose this angle?

Results: At what angle does your car travel the fastest? _____

At what angle does the car start losing speed? _____ Why? _____

Conclusion: _____



Homework: On the back side of this paper draw a graph of the above data. Make sure you use a title, ruler, labels, etc.