

EQ: How does the mass of an object affect its motion?

Mass is how much _____ is in an object. You can measure mass with a _____.

Prediction: A heavy car will travel _____ than a lighter car.

Procedure:

- 1) Make a ramp with your textbooks and white board.
- 2) Drop the car from the top of the ramp with no added weight.
- 3) Use the meter sticks to measure the distance the car traveled and record it in the table below.
- 4) Repeat steps 2 and 3 with a car with more weight.
- 5) Repeat steps 2 and 3 again with the most amount of weight added.

Results:

Car Weight	Distance 1	Distance 2	Distance 3	Distance Average
No weight				
More weight				
Most weight				

The _____ car traveled the farthest. The _____ car traveled the shortest distance.

Conclusions:

What did you learn about how mass affects an objects motion?

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