

Collision Investigation Lab Report

Name: _____

Group 1: Ramp Height Challenge

Our Question:

How does the height of the ramp change how far a marble moves after a collision?

Our Experiment:

Test 1: Low Ramp

- 1 Place the ramp on **one** book.
- 2 Let the marble roll down and hit the other marble.
- 3 Measure how far the second marble moved.
- 4 Distance: _____ cm

Test 2: High Ramp

- 1 Place the ramp on **two** books.
- 2 Let the marble roll down and hit the other marble.
- 3 Measure how far the second marble moved.
- 4 Distance: _____ cm

Our Conclusion: Fill in the blanks

transferred	more	farther
-------------	------	---------

- 1 When the ramp was higher, the rolling marble had _____ energy.
- 2 In the collision, the energy _____ to the second marble.
- 3 The second marble moved _____ when the ramp was higher because more energy was transferred.

Self-Assessment: Two Stars and a Wish

- Star 1 (Something I did well): _____
- Star 2 (Something I did well): _____
- Wish (Something I can improve): _____