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):** _____

LIVEWORKSHEETS