

19.5: Analysis

Ramp to Carpet

1. Use the steel ball and Styrofoam cup tables to construct a graph of distance the cup moved versus height from which the steel ball was released. Based on your graph, how does the height from which the ball is released affect the amount of work done on the cup?
2. Was all GPE of the steel ball converted into mechanical work on the Styrofoam cup? Explain.
3. Construct a 2nd graph using your stopping distance data. Use the average stopping distance and the initial heights to construct your graph. Write a sentence which describes what your graph shows.

Different Slopes

4. Construct a 3rd graph using your angle and velocity data. How does this graph compare to your 1st and 2nd graphs?

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