



Conservation of Mechanical Energy

Guide Questions

40% of the Written Report (Group Report) grade

1. What energy transformation occurred as the ball rolls down the ramp?
2. Explain why the kinetic energy of the ball at the bottom of the ramp is computed as $\frac{7}{10}mv^2$? Show how you arrive at this value.
3. What is the average percentage error you obtained? Which kinetic energy was larger in each trial, the potential energy or kinetic energy?
4. What is the major source of error in the experiment?
5. When the initial height of the ball was increased, what happens to its initial potential energy? What happens to its final kinetic energy?