

Group names:

Work-Kinetic Energy Theorem Post Lab Questions

ANALYSIS

- 1. Summarizing Data** Summarize your findings and observations, including an analysis of any data tables or graphs that you created.
- 2. Identifying Relationships** For each mass you used on the low-friction cart, describe the effect on the final velocity and kinetic energy of the cart with masses.
- 3. Analyzing Methods** Use your results and the work-kinetic energy theorem to determine the net force that was doing work on the cart. How does this compare to the force the mass applied to the cart? Explain any differences.
- 4. Describing Events** Share your results with your classmates. Were your results similar to those of your classmates who used the same masses you did?

CONCLUSIONS

- 5. Drawing Conclusions** What conclusions can you draw about the data you collected? What additional conclusions can you draw from class results?
- 6. Evaluating Experimental Design** Was your device an accurate device for measuring kinetic energy? Was any energy lost? If so, to what form was it converted?
- 7. Evaluating Results** Was the increase in kinetic energy equal to the work done by the falling mass? Explain why or why not.