

# CONSERVATION OF ENERGY

The conservation of energy means that within the boundaries of the problem, energy cannot be created or destroyed. In other words, the energy that is available at the beginning of the problem, or in our case the beginning of the Cannibal ride, must be equal to the energy at the end.



## Questions

1. Describe what happens to the potential and kinetic energies as the cart falls from the top to bottom of the tower.
2. Restate the values of potential energy (see pg. 7) at the top of the tower and kinetic energy (see pg. 8) at the bottom of the tower here.

Estimated PE = \_\_\_\_\_ J/m

Estimated KE = \_\_\_\_\_ J/m

3. Are the values from Question 2 equal? If not, why? Where is the energy lost? What is the percent energy lost (see last question on page 6)?