

PUZZLER

A common scene at a carnival is the Ring-the-Bell attraction, in which the player swings a heavy hammer downward in an attempt to project a mass upward in an attempt to ring a bell. What is the best strategy to win the game and impress your friends? (Robert E. Daemrich/Tony Stone Images)



chapter

8

Potential Energy and Conservation of Energy

Chapter Outline

- 8.1** Potential Energy
- 8.2** Conservative and Nonconservative Forces
- 8.3** Conservative Forces and Potential Energy
- 8.4** Conservation of Mechanical Energy
- 8.5** Work Done by Nonconservative Forces
- 8.6** Relationship Between Conservative Forces and Potential Energy
- 8.7** (Optional) Energy Diagrams and the Equilibrium of a System
- 8.8** Conservation of Energy in General
- 8.9** (Optional) Mass–Energy Equivalence
- 8.10** (Optional) Quantization of Energy