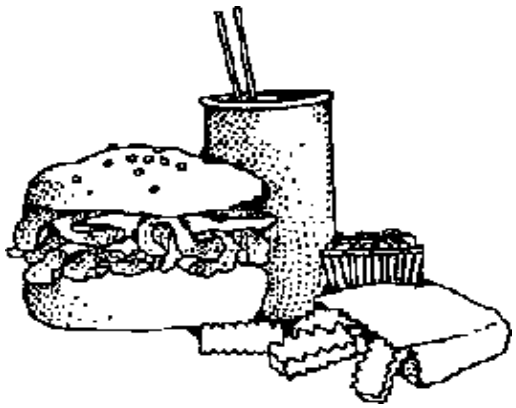
Energy
Study Guide



OBJECTIVES

By the end of this unit you should be able to:

1. Use the terms of work, force and displacement properly in describing events.
2. State the concept of work in your own words.
3. Determine the work done when a known force acts on an object a known distance.
4. Describe events using correctly the concepts of kinetic energy and potential energy.
5. Relate the potential energy stored in a spring to the expansion or compression of the spring.
6. Calculate the potential energy of a body near the earth or far from the earth.
7. Relate the kinetic energy of a moving object to its mass and velocity.
8. Use the terms kinetic energy, potential energy and work in describing everyday events.
9. Use the conservation of energy law to analyze a mechanical system.
10. Apply the concepts of work, energy, and power to common experiences.
11. Conduct experiments and activities to determine power for various systems.
12. Solve simple problems involving work, time, and power.

Assignments

READING

Chapter 5: Page 167-192

QUESTIONS & PROBLEMS

Chapter 5: Page 193: 1, 2, 3, 5, 6, 7, 8, 9, 12, 14, 15, 16, 18, 19, 20, 24, 26, 28, 30, 31, 33, 36.