

## GED SCIENCE LESSON 18

### WORK AND ENERGY

**Competency:** Explore energy transformations in our world.

**Learning Objectives:**

1. Explain the relationship between energy and work.
2. Differentiate between potential and kinetic energy.

**Learning Activities:**

- \_\_\_1. Read pgs. 190-197 Steck-Vaughn GED Science text and answer all the questions.
- \_\_\_2. Log on at <http://www.myskillstutor.com> and complete the Energy exercises under Science I – Physical Sciences.
- \_\_\_3. View the animations about Forms of Energy, Potential and Kinetic Energy, and Converting between Energy Forms at the May the Force be With You Website.  
<http://www.usoe.k12.ut.us/curr/science/sciber00/8th/forces/sciber/intro.htm>
- \_\_\_4. Recall which chemical reactant in cellular respiration contains potential energy.
- \_\_\_5. Explain briefly the energy transformations that are taking place during photosynthesis.
- \_\_\_6. Summarize the Law of Conservation of Energy.
- \_\_\_7. Compare the process of digesting food to the burning of fossil fuels in a mechanical engine. Is there more energy stored in the reactants or products?