

Chapter 8

The Cellular Basis of Activity

Chapter Goals

I can understand that...

- ❑ matter and energy are related;
- ❑ energy exists in different forms, such as heat, light, and chemical;
- ❑ photosynthesis converts light energy into chemical energy, and it converts carbon dioxide and water into energy-storage molecules;
- ❑ cellular respiration breaks down food molecules and releases energy; and
- ❑ all organisms fuel biosynthesis with energy released by cellular respiration.