

## STUDY GUIDE: ENERGY AND INFORMATION

### 6. Energy-Driven Inventions

#### 6.1 Living Systems Require a Flow of Energy

In a phrase, how do physicists define “energy”? **“The ability to do work”.**

How would a cell biologist define “energy”? **“The ability to make specific changes occur”**

The physicist’s definition of energy is not **comprehensive enough** for use in defining energy changes within a living cell.

List five major sorts or categories of energy change within the cell. **biosynthesis, movement, concentration, electrical potential, heat**

On a cold day, which of the following processes do your cells depend on to maintain an operating temperature of 37 degrees Celsius? **Both A and B. Shivering is the result of muscle contractions.**

- shivering
- muscle contraction
- respiration energy production
- metabolic heat generation
- all of the above

Sometimes the cell pumps substances against diffusion forces that would carry those substances the other way. What term would we give to this process? **energy of concentration**

#### 6.2 Laws of Energy Flow in the Living World

**Energy** is freely convertible from one form to another but **energy** can never be created or destroyed.

Systems that convert energy from one form to another are not 100% efficient, thus the amount of useful energy **decreases**.

In nature, as energy freely changes from one form to another, the total amount of energy **decreases because some energy becomes useless.**

In living things, energy conversion is inefficient, with much energy being lost in the form of **heat**

What form of energy do producers use when they set about to generate chemical energy—the energy of C—H and C—O—H bonds. **solar energy**

Thus, a producer organism is called a “producer” because it produces usable **chemical energy**

When your car engine burns the octane in gasoline, in what form does at least 50% of the energy of the octane end up? **heat**

# Student Study Guide Energy Rules

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