

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.

1. Biosynthesis
2. Movement
3. Concentration
4. Electrical Potential
5. Heat

On a cold day, which of the following processes do your cells depend on to maintain an operating temperature of 37 degrees Celsius?

- a. shivering
- b. muscle contraction
- c. respiration energy production
- d. metabolic heat generation
- e. 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 remains constant.

Study Guide Energy From The Sun Answers

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