

Cellular Energy

Section 1 How Organisms Obtain Energy

Main Idea

Details

Scan Section 1 of the chapter and make a list of three general ways in which cells use energy.

1. _____

2. _____

3. _____

Review Vocabulary

Use your book or dictionary to define trophic level.

trophic level

New Vocabulary

Use your book or dictionary to define each vocabulary term.

energy

thermodynamics

metabolism

photosynthesis

cellular respiration

adenosine triphosphate

Section 1 How Organisms Obtain Energy (continued)

Main Idea _____

Details _____

Transformation of Energy

I found this information on page _____.

Organize *at least seven of your body's cell processes that require energy.*

Energy in Cell Processes

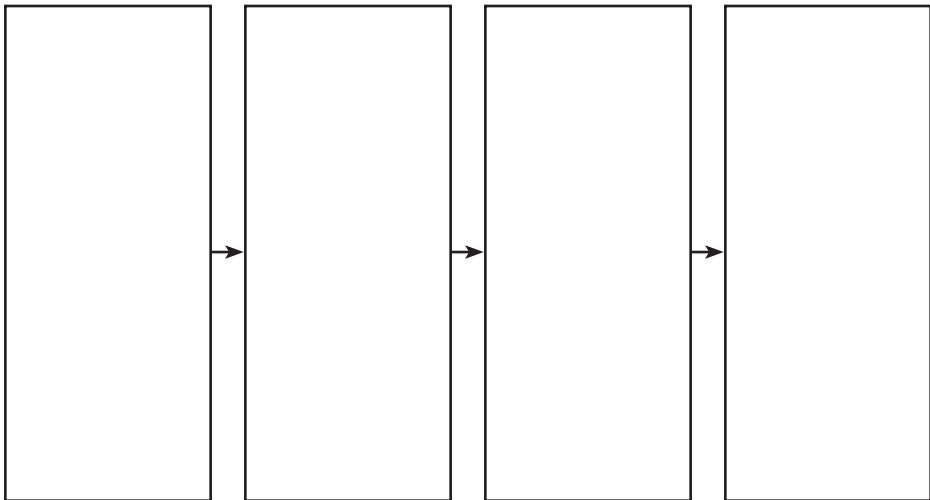
Metabolism

I found this information on page _____.

Compare *the laws about how energy flows. Give an example of each.*

	First Law of Thermodynamics	Second Law of Thermodynamics
Defined		
Example		

Sequence *the flow of energy from the Sun to heterotrophs.*

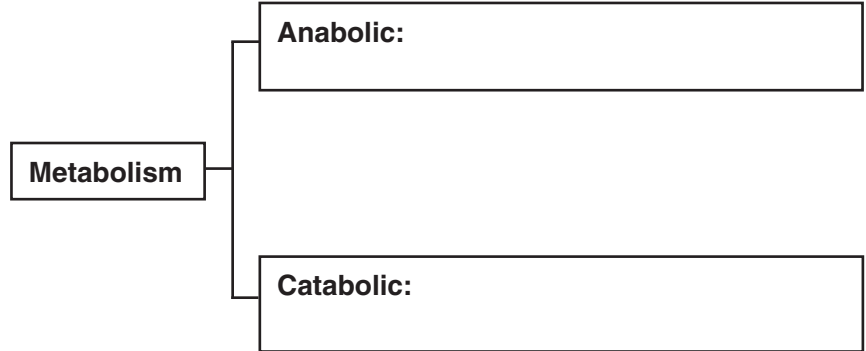


Section 1 How Organisms Obtain Energy (continued)

Main Idea

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Compare and contrast *catabolic and anabolic pathways* by writing characteristics of each in the chart below.



ATP: The Unit of Cellular Energy

I found this information on page _____.

Summarize *ATP and ADP.*

ATP
Explain how your body uses ATP, and list the three parts of the molecule.

ADP
Explain how ADP is made from ATP.

SUMMARIZE

Design a concept map to show the three most important ideas from this section.