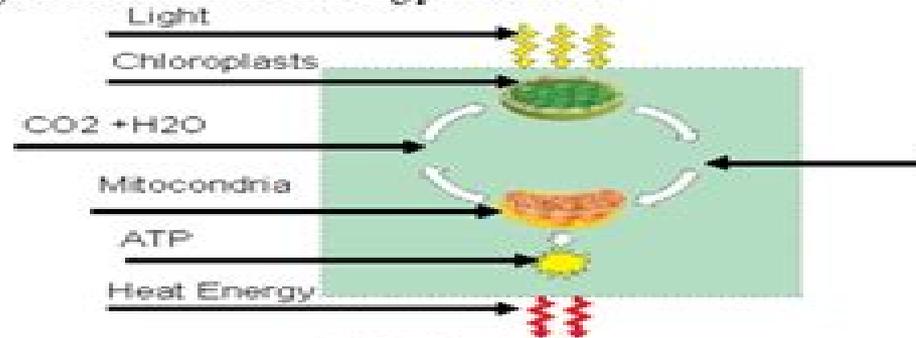


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Chapter 9: Cellular Respiration: Harvesting Chemical Energy

Overview: Before getting involved with the details of cellular respiration and photosynthesis, take a second to look at the big picture. Photosynthesis and cellular respiration are key ecological concepts involved with energy flow. Use Figure 9.2 to label the missing parts below.



Concept 9.1 Catabolic pathways yield energy by oxidizing organic fuels

- Explain the difference between fermentation and cellular respiration.

No O ₂	Requires O ₂
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- Give the formula (with names) for the catabolic degradation of glucose by cellular respiration.

Glucose + Oxygen + Carbon Dioxide → Carbon Dioxide + Dihydrogen Monoxide + ATP
- Both cellular respiration and photosynthesis are *redox reactions*. In redox, reactions pay attention to the flow of electrons. What is the difference between oxidation and reduction?

Oxidation, Agent loses e⁻
Reduction, Agent gains e⁻

4. The following is a generalized formula for a redox reaction:



Draw an arrow showing which part of the reaction is oxidized and which part is reduced.

Xe⁻ is the reducing agent in this reaction, and Y is the oxidizing agent.

Chapter 9 Cellular Respiration Test

Mary Wuerth



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