

Chapter 6: How Cells Harvest Chemical Energy

Cellular Respiration: Aerobic Harvesting of Energy

-life requires energy

-in almost all ecosystems, energy ultimately comes from the sun

-in photosynthesis:

- Some of the energy in sunlight is captured by chloroplasts
- Atoms of carbon dioxide and water are rearranged
- And sugar and oxygen are produced

-in cellular respiration:

- Sugar is broken down to carbon dioxide and water
- And the cell captures some of the released energy to make ATP

-respiration, as it relates to breathing, and cellular respiration aren't the same

- Respiration in the breathing sense refers to an exchange of gasses
- Cellular respiration is the aerobic (oxygen-req) harvesting of energy from food molecules by cells

-cellular respiration

- Is an exergonic (energy-releasing) process that transfers energy from glucose to form ATP
- Can produce up to 32 ATP molecules for each glucose molecule
- Uses about 34% of the energy originally stored in glucose with the rest of the energy lost as heat

-your body requires a continuous supply of energy

-cellular respiration provides energy for body maintenance and voluntary activities

Harvesting Energy Guide Answers

J Ma



Harvesting Energy Guide Answers:

Whispering the Techniques of Language: An Emotional Quest through **Harvesting Energy Guide Answers**

In a digitally-driven earth wherever monitors reign great and quick interaction drowns out the subtleties of language, the profound strategies and emotional nuances concealed within words often get unheard. Yet, situated within the pages of **Harvesting Energy Guide Answers** a captivating literary prize sporting with fresh emotions, lies an exceptional journey waiting to be undertaken. Published by an experienced wordsmith, that enchanting opus attracts readers on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the cloth of each word. Within the emotional depths with this poignant review, we can embark upon a genuine exploration of the book's primary subjects, dissect its fascinating publishing design, and succumb to the effective resonance it evokes seriously within the recesses of readers' hearts.

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