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

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