

## Chapter 4 Energy Notes Answer Key

### Section 4.1

1. ATP
  2. energy released for cell processes
  3. ADP
  4. energy from breakdown of molecules
  5. 4 calving: 36 ATP from glucose; most common molecule broken down to make ATP
  6. 3 calving: 145 ATP from a triglyceride; stores most of the energy in people
  7. 4 calving; mitochondria break down by cells to make ATP
- (Chemosynthesis—process through which some organisms use chemicals from the environment (rather than light energy) as a source of energy to build carbon-based molecules)

### Section 4.2

(Photosynthesis—process through which light energy is captured and used to build sugars that store chemical energy)

1. chloroplast
  2. sunlight
  3. water
  4. thylakoid, chlorophyll and other light-absorbing molecules
  5. oxygen
  6. energy-carrying molecules transferred to light-independent reactions
  7. carbon dioxide from the atmosphere
  8. light-independent reactions (Calvin cycle)
  9. one six-carbon sugar (glucose)
- (Photosynthesis equation)  
 $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

### Section 4.3

1. energy absorbed from sunlight and transferred to electrons that enter an electron transport chain
  2. water molecules are broken down; electrons enter chloroplast
  3. energy from electrons in transport chain is used to pump H<sup>+</sup> ions across the thylakoid membrane
  4. energy absorbed from sunlight is transferred to electrons
  5. high-energy electrons used to produce an energy-carrying molecule called NADPH
  6. H<sup>+</sup> ions flow (or diffuse) through a channel in the thylakoid membrane
  7. This channel is part of ATP synthase, which produces ATP
1. carbon dioxide molecules enter the Calvin cycle
  2. energy added to molecules in the cycle; molecules rearranged into higher energy molecules
  3. high-energy three-carbon molecule leaves the cycle; two are bonded together to make a six-carbon sugar
  4. energy added to molecules remaining in the cycle to change them into five-carbon molecules

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