

## Cells and Energy

# Study Guide A

## Answer Key

### SECTION 1. CHEMICAL ENERGY AND ATP

1. molecule; food molecules
2. high-energy; lower-energy
3. phosphate group
4. a; d; b; c
5. b; e
6. c; d
7. a; f
8. chemical energy; light energy
9. three; two
10. chemical; molecules

### SECTION 2. OVERVIEW OF PHOTOSYNTHESIS

1. chemical energy
2. light energy; chemical energy
3. visible light
4. photosynthesis
5. stroma; grana
6. grana
7. Equation:  $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
8.  $6\text{CO}_2$  and  $6\text{H}_2\text{O}$
9.  $6\text{O}_2$  and  $\text{C}_6\text{H}_{12}\text{O}_6$
10. b
11. require light; energy
12. do not require light; sugars
13. Refer to Figure 2.2 for a visual answer.  
The four steps are: d, a, b, c
14. energy; sugars
15. green
16. independent

### SECTION 3. PHOTOSYNTHESIS IN DETAIL

1. capture; transfer
2. molecules
3. ATP; NADPH
4. b, g, d, f, c, e, a
5. carbon dioxide
6. 1 b; 2 d; A a; 3 c; 4 c
7. proteins
8. synthesizes
9. with no beginning or end,

### SECTION 4. OVERVIEW OF CELLULAR RESPIRATION

1. energy; oxygen
2. oxygen
3. mitochondria
4. glucose; ATP
5. b; c
6. a; c
7. Equation:  $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$
8.  $6\text{O}_2$  and  $\text{C}_6\text{H}_{12}\text{O}_6$
9.  $6\text{CO}_2$  and  $6\text{H}_2\text{O}$
10. d
11. Refer to Figure 4.2 for a visual answer.  
The four steps are: d, b, a, c
12. sugar
13. oxygen
14. break down

### SECTION 5. CELLULAR RESPIRATION IN DETAIL

1. glucose
2. Pyruvate and NADH; ATP
3. two; four
4. c
5. c, b, a, d, e
6. inner
7. electrons; hydrogen ions
8. c, d, b, a
9. electrons

### SECTION 6. FERMENTATION

1. ATP
2. electrons
3. hard exercise
4. oxygen
5. two
6. For a visual answer, refer to the lactic acid fermentation diagram in Section 6. The order of the four steps is: d, b, c, a
7. For a visual answer, refer to the alcoholic fermentation diagram in Section 6. The order of the four steps is: c, a, d, b

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web jun 19 2023 part 1 design the blade download article 1 draw the blade use graph paper to design the shape of your blade try to keep it as close to actual size as possible to ease construction get creative with your blade design but keep functionality and practicality in mind 2 decide on blade length

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web mar 7 2018 about design it s been said that good designs evolve and i believe it when i got started in knifemaking i didn t have one clear thought about design i grabbed the only suitable knifemaking material i could find and went to work grinding on it there was no thought as to knife proportions or design principles

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