

# chapter 17 ap bio study guide answers

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### The Working Cell

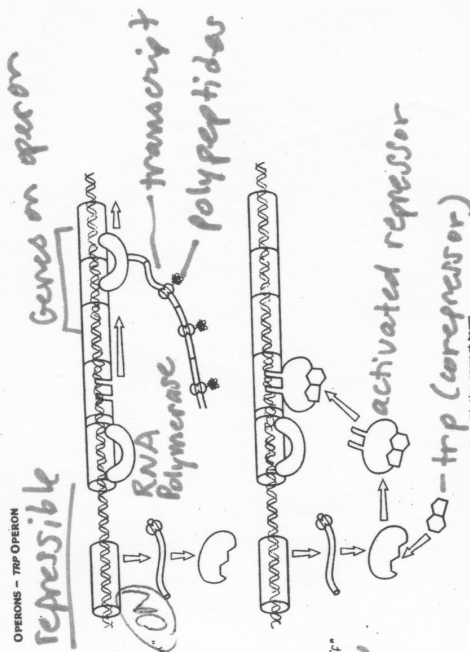
**Comparing Cells:**  
Cell theory states that all living organisms are composed of cells.  
Cells are the smallest units of structure and function in an organism.  
Cells are the basic units of life.

**Energy and Cells:**  
Energy and Cells (p. 201-202)  
What kinds of energy are used in cells?  
From sunlight, inorganic ATP, ADP

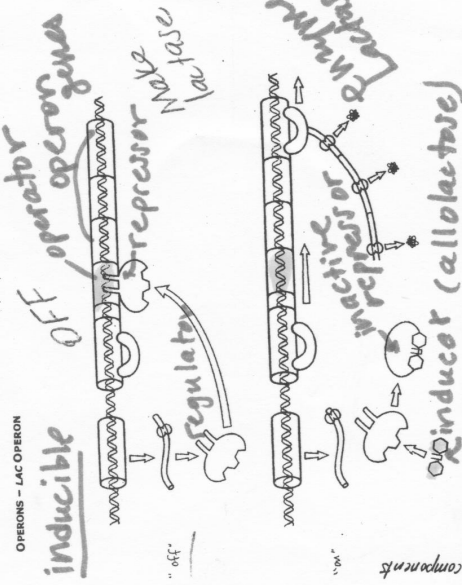
**Photosynthesis:** (p. 203, 204, 205)  
 $6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow{\text{light}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

What are the steps of photosynthesis?  
What are the products of photosynthesis?  
What are the reactants of photosynthesis?  
What are the products of cellular respiration?  
What are the reactants of cellular respiration?

\* Use figures 18.21 + 18.22 as guides for labeling + coloring + summarizing the concept of gene regulation + repressible inducible operons.



3. Match the description/function with the correct term.
- A. Corepressor
  - B. Operator
  - C. Operon
  - D. Polycistronic mRNA
  - E. Promoter
  - F. Regulatory gene
  - G. Repressor
  - H. Structural gene
- Matched terms: C, H, D, B, G, F, E, A



- Match these components of the lac operon with their functions.
- A. is inactivated when inducer binds to lactose repressor
  - B. codes for synthesis of repressor
  - C. hydrolyzes lactose
  - D. stimulates gene expression
  - E. repressor attaches here
  - F. RNA polymerase attaches here
  - G. acts as inducer that inactivates repressor
  - H. codes for an enzyme
- Matched terms: D, B, G, E, F, A, H

Write a summary of how each operon is regulated from its components

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