

Unit 3: Photosynthesis Test Review

Ch. 8

Objective Questions:

1. Be able to identify parts and functions of a cross section of a leaf
2. Be able to label the parts of photosynthesis within a chloroplast
3. Be able to read graphs and charts to deduce answers
4. Explain Priestley's experiment
5. Give examples of autotrophs
6. Give examples of heterotrophs
7. How does light behave?
8. How is ATP formed?
9. KNOW THE EQUATION FOR PHOTOSYNTHESIS!!!!
10. Know the flow of electrons during photosynthesis
11. What are autotrophs?
12. What are heterotrophs?
13. What are pigments?
14. What are some examples of producers?
15. What are stomata?
16. What are the parts of an ATP molecule?
An ADP molecule?
17. What are the products and reactants of light-dependent reactions?
18. What are the products and reactants of the Calvin Cycle?
19. What are the steps of Light Dependent Reactions?
20. What causes energy to be released from ATP?
21. What did Ingenhousz conclude?
22. What did Jan van Helmont conclude?
23. What do Golgi bodies do?
24. What happens inside the thylakoid membrane?
25. What is a granum?
26. What is a porphyrin ring?
27. What is a synonym for the Calvin Cycle?
28. What is osmosis?
29. What is the first step of photosynthesis?
30. What is the function of lysosomes?
31. What would affect the rate of photosynthesis? How?
32. Where are photosystems I and II found?
33. Where do light-dependent reactions take place?
34. Where does the Calvin Cycle take place?
35. Where is chlorophyll found?
36. Where is the stroma located?
37. Why are most plants green?

Unit 3: Respiration Test Review

Ch. 9

Objective Questions:

Be familiar with the following topics (know lots of details!)

1. Acetyl CoA
2. Aerobic respiration
3. Anaerobic respiration
4. Chemiosmosis
5. Electron accepting molecules
6. Electron carrying molecules
7. Glucose
8. How are the photosynthesis and respiration equations related?
9. How much ATP is produced in each step of respiration?
10. How much NADH is produced in each step of respiration?
11. Know where each step of respiration takes place in the cell
12. Pyruvic Acid/Pyruvate
13. Sequence of events in cellular respiration
14. Sequence of events in electron transport
15. Sequence of events in glycolysis
16. Sequence of events in Krebs's cycle
17. The reactants and products of Alcoholic Fermentation
18. The reactants and products of Cellular Respiration (the overall equation)
19. The reactants and products of Electron Transport
20. The reactants and products of glycolysis
21. The reactants and products of Krebs's cycle
22. The reactants and products of Lactic Acid Fermentation
23. What is the net gain of ATP in each step of respiration?
24. What is the net gain of NADH in each step of respiration?
25. What type of cells undergo Alcoholic fermentation?
26. What type of cells undergo Lactic Acid fermentation?
27. Where would anaerobic bacteria be found?