

Name \_\_\_\_\_ Hour \_\_\_\_\_

## UNIT 7—Ch 8-- TEST REVIEW

1. Name the 3 parts of an ATP molecule. 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_
2. How is energy released from ATP? \_\_\_\_\_
3. When energy is released from ATP what is formed? \_\_\_\_\_
4. How does ATP differ from ADP? \_\_\_\_\_
5. What is the name of the sugar in ATP? \_\_\_\_\_
6. What is the name of the sugar in ADP? \_\_\_\_\_
7. What type of biological work is ATP needed for? Name 3.  
a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_
8. How can ADP become ATP? \_\_\_\_\_
9. What type of organisms use ATP? \_\_\_\_\_
10. During what process is ATP made from glucose? \_\_\_\_\_ In what organelle does this take place? \_\_\_\_\_
11. What is the name of the amino acid that is found in ATP? \_\_\_\_\_
12. What molecule is the only useable source of energy for the cell? \_\_\_\_\_
13. What molecule is the most easily converted to ATP? \_\_\_\_\_
14. What does ATP stand for? \_\_\_\_\_
15. Describe the function of ATP. \_\_\_\_\_
16. What structure in the chloroplast contains chlorophyll? \_\_\_\_\_
17. Name 4 ingredients necessary for photosynthesis. 1. \_\_\_\_\_  
2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_
18. The Calvin cycle is another name for what reactions? \_\_\_\_\_
19. What is a product of the Calvin cycle that does not go into light dependent reactions? \_\_\_\_\_
20. What are products of the dark reactions that go into light reactions? \_\_\_\_\_
21. What is the product of the light-dependent reactions that does not go into the Calvin cycle?  
\_\_\_\_\_
22. What are products of the light reactions that are used in dark reactions the \_\_\_\_\_
23. Why do plants appear green? \_\_\_\_\_
24. What type of organisms carry on photosynthesis? \_\_\_\_\_
25. Where in the plant cell does photosynthesis take place? \_\_\_\_\_
26. Where in the chloroplast does the Calvin cycle take place? \_\_\_\_\_
27. Where in the chloroplast do the light dependent reactions take place. \_\_\_\_\_
28. How does light intensity affect the rate of photosynthesis? \_\_\_\_\_
29. What is responsible for absorbing sunlight's energy? \_\_\_\_\_ What does it pass the energy to? \_\_\_\_\_ Where do they take the energy? \_\_\_\_\_

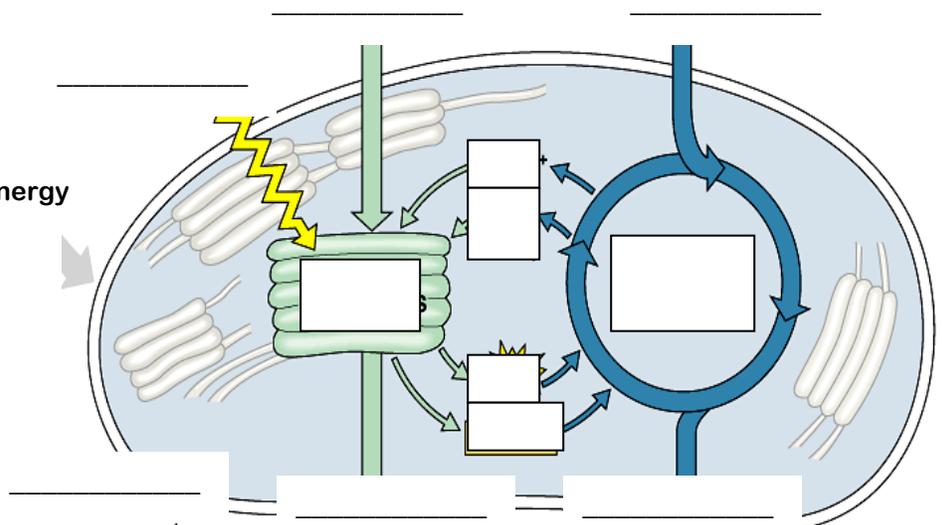
30. Is chlorophyll in the thylakoids or stroma? \_\_\_\_\_ What about their appearance lets you know? \_\_\_\_\_
31. Name the 2 parts of photosynthesis. 1. \_\_\_\_\_ 2. \_\_\_\_\_
32. What type of organic material makes up most of the mass of plants? \_\_\_\_\_
33. What are the two products of photosynthesis? 1. \_\_\_\_\_ 2. \_\_\_\_\_
34. What is a biochemical pathway? \_\_\_\_\_
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35. Who determined the biochemical pathway for the formation of glucose from carbon? \_\_\_\_\_
36. What didn't Van Helmont take into account when determining the mass of a tree? \_\_\_\_\_
37. Describe what happens to the rate of photosynthesis as you increase light intensity. \_\_\_\_\_ and then it \_\_\_\_\_
38. List four things that affect the rate of photosynthesis \_\_\_\_\_

True or False- **CORRECT THE FALSE**

- \_\_\_\_\_ 34. Glucose is made in the dark.
- \_\_\_\_\_ 35. All organism use ATP.
- \_\_\_\_\_ 36. All organisms make glucose.
- \_\_\_\_\_ 37. All organism use cellular respiration.
- \_\_\_\_\_ 38. All organisms carry on photosynthesis.
- \_\_\_\_\_ 39. Fungi can carry on photosynthesis.
- \_\_\_\_\_ 40. Melvin Calvin discovered the light dependent reactions.

**LABEL THE DRAWING, THEN Do Matching- Answer using LD ( light dependent) or LI (Light independent)**

- \_\_\_\_\_ 41. Oxygen produced
- \_\_\_\_\_ 42. Carbon dioxide used
- \_\_\_\_\_ 43. Glucose product
- \_\_\_\_\_ 44. Water split
- \_\_\_\_\_ 45. Chlorophyll traps sunlight energy
- \_\_\_\_\_ 46. Calvin cycle
- \_\_\_\_\_ 47. NADPH and ATP produced
- \_\_\_\_\_ 48. Thylakoid
- \_\_\_\_\_ 49. Stroma
- \_\_\_\_\_ 50. Needs light
- \_\_\_\_\_ 51. Doesn't need light



**52. WRITE THE WORD EQUATION FOR PHOTOSYNTHESIS**

\_\_\_\_\_ →

**53. WRITE THE CHEMICAL FORMULA FOR PHOTOSYNTHESIS**

\_\_\_\_\_ →