Name:

Unit Four Review

1. How do roots use osmosis to up take water from the soil?
2. When will osmosis and diffusion stop in a cell?
3. What makes a solution hypotonic, hypertonic or isotonic?
4. If the concentration of particles is greater inside a cell than outside a cell, what will happen?
5. How do heterotrophs obtain energy needed in order for them to function?
6. What type of organisms can make their own food?
7. Write the equation for photosynthesis.
8. Write the equation for cellular respiration.
9. Draw a picture of one of the plants in the green house and explain how photosynthesis and cellular respiration work together.
10. List three steps or stages of photosynthesis.
11. Name the light independent reaction of photosynthesis.
12. When does fermentation occur?
13. List 2 types of fermentation.
14. Which is more efficient, anaerobic or aerobic respiration?
15. Explain how the plant cells grow (mitosis).
16. Draw prophase, metaphase, anaphase and telophase.
17. Explain the difference between active and passive transport.
18. List 2 kinds of passive transport.
19. Give a detailed example of diffusion in the body.
20. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ An organic molecule that is used for energy.
21. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_The difference in the concentration of a substance across a space.
22. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Organisms that use energy from sunlight to make their own food.
23. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_A sodium-potassium pump is an example of this type of cell transport.
24. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_True or false: Glycolysis requires oxygen.
25. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Where does glycolysis occur?
26. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Where does the Krebs cycle or the 2nd stage of cellular respiration occur?
27. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Type of metabolic process that requires oxygen.