Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period:\_\_\_\_\_\_\_\_\_\_\_

Cell Unit Test Study Guide

1. What is an organism?
2. What defines something as “living”?
3. Where does all energy ultimately come from?
4. What is the difference between a unicellular organism and a multicellular organism?
5. Who was the first to coin the term “cell”?
6. What invention led to the discovery of cells?
7. What are the 3 parts of the cell theory?
8. What specimen did Robert Hooke study when studying cells?
9. Know all of the cell organelles and their functions.
10. Know the differences and similarities between plant and animal cells.
11. What is homeostasis?
12. What does selectively permeable mean?
13. What happens when you tare a scale?
14. Which organelle is responsible for maintaining homeostasis?
15. What are the 2 parts of a phospholipid?
16. Define hydrophilic and hydrophobic.
17. What is the purpose of cholesterol in the cell membrane?
18. What types of substances pass easily through the cell membrane? Which do not?
19. What does polar mean?
20. What is the purpose of carbohydrates in the cell membrane?
21. Define and identify hypertonic, hypotonic and isotonic solutions.
22. What are the differences between passive and active transport?
23. Describe the 6 types of cellular transport
24. In which organelle does photosynthesis take place?
25. What is ATP and how is it used by cells?
26. What are the chemical equations for photosynthesis and cellular respiration?
27. Describe the stages of photosynthesis and cellular respiration.
28. What are the reactants and products of photosynthesis?
29. What are the reactants and products of cellular respiration?
30. When does fermentation occur?