

Name:

Date:

Period:

# Cell Review Guide

**What did each of these dudes do?**

1. Robert Hooke:
2. Robert Brown:
3. Schleiden and Schwann:
4. Henri Dutrechet:
5. Edmund B. Wilson:

**What is the function/job of each of the following organelles?**

6. Nucleus:
7. Nucleolus:
8. Ribosome:
9. Endoplasmic reticulum:
10. Golgi:
11. Mitochondria:
12. Chloroplast:
13. Cytoskeleton:
14. Lysosome:

Name:

Date:

Period:

15. Vacuole:

16. Cell wall:

17. Cell membrane:

18. Cytoplasm:

**Briefly describe each of the following processes:**

19. Diffusion:

20. Osmosis:

21. Facilitated Diffusion:

22. Active Transport Protein Pumps:

23. Endocytosis:

24. Pinocytosis:

25. Phagocytosis:

26. Exocytosis:

**Answer the following questions:**

27. What is a prokaryotic cell? What groups of organisms are prokaryotic?

28. What is a eukaryotic cell? What are 3 groups of eukaryotes?

29. What are two types of eukaryotic cells?

Name:

Date:

Period:

30. Define organelle.

31. What are 2 organelles that plant cells have that animal cells do not?

32. What is the cell membrane made of?

33. What is the cell wall made of?

34. What are three types of fibers/filaments found in the cytoskeleton?

35. Which type of cell has a larger vacuole?

36. What is photosynthesis? What organelle is responsible for performing photosynthesis?

37. What types of cells do photosynthesis?

38. What is respiration? What organelle is responsible for performing respiration?

39. What is the nickname of the lysosome?

40. What is the difference between passive transport and active transport?

41. What is equilibrium?

42. When equilibrium is reached, the molecules don't stop moving. What happens instead?

43. What would happen if you put a freshwater organism into salt water? Why?

44. What would happen if you put a saltwater organism into freshwater? Why?

Name:

Date:

Period:

45. Label the diagrams below.

