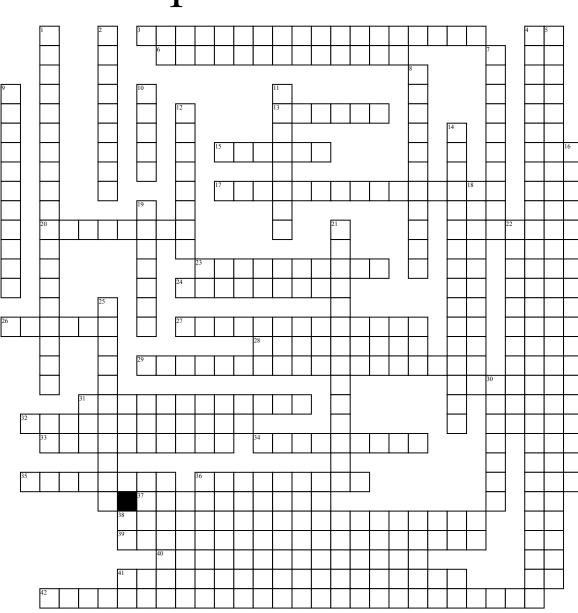
Chapter 4- The Cell



Across

3. fouses a beam of electrons through or onto the surface of a specimen; 100,000x

6. dividing of cells in prokaryotes

13. when diverse proteins embed themselves in the phospholipid bilayer

- 15. fluid containing DNA, ribosomes, and enzymes in a chloroplast
- 17. bends light through lenses to magnify the image of specimen as it is projected into your eye; object appears upside down; magnify up to 1000 times clearly

20. provides an acidic environment for its enzymes' digestive functions; digest food and recycles damaged

- organelles
- 23. picture taken by a microscope

24. makes more ribosomes and synthesizes RNA

26. transport in our bodies paid for with ATP

27. increase in apparent size of an object

28. combination of DNA and protein fibers

- 29. eliminates water in protists
- 31. chloroplasts and ____function in energy processing

32. structural support, movement, and communication between cells are the functions of the plasmamembrane, plant cell wall, and

- 33. measure of clarity
- 34. membranous sac in a chloropast

35. prokaryotes have this in place of a nucleus

36. nucleus and carry out the genetic control of the cell 37. true nucleus

38. stores water and a variety of chemicals

39. contains mitochondrial dna, ribosomes, enzymes that

- catalyze reactions of cellular respiration
- 40. only organelle named after someone; finishes, sorts,

and ships cell products **41.** chemical activities of a cell

42. uses thin film of gold over specimen; big in size; views

surfaces of cells

- Down
- 1. provides support; regulates cellular activites
- 2. have cell walls, chloroplasts, large vacuole,

plasmodesmata

4. views internal cell structure; uses electomagnets to bend the paths of the electrons

5. a microscope that amplifies differences in destiny so that structures in the living cells appear almost three-dimensional

7. has lysosomes, centrioles, some have flagella

8. thread-like gene carrying structures found in the nucleus; most visible during mitosis

9. before nucleus

10. stacks of thylakoids, where green chlorophyll molecules trap solar energy

11. acts as a detoxifyer, lacks attached ribosomes; produces enzymes for synthesis of lipids, oils, etc.; storage of calcium ions

12. sacs of membrane

14. comes from the maternal line

16. involved in the synthesis, storage, and export of molecules; contains nuclear envelope, ER, golgi apartus, lysosomes, vacuoles, and plasma membrane

18. bacteria are

19. makes more membrane, makes proteins destined to leave the cell

21. very thin boundary of a cell that is flexible

22. coined the term "cells" when examining cork cells 25. organelles involved in manufacture, distribution, and breakdown of molecules include the ER, golgi, lysosomes, vacuoles, and

30. genetic control center of the cell; contains most of the cells dna