

Chapter 7-1 Life Is Cellular.....Name_____

1. The discovery of the cell was possible due to the invention of the _____
2. Who was the first person to see cells? _____
3. Why did he call them cells? _____
4. Who was the first person to see tiny organisms living in water? _____

5. List the three components of the CELL THEORY

6. High resolution video technology can be used to produce movies of cells as they _____

7. Transmission electron microscopes can be used to explore cell _____ and large _____ molecules

8. Scanning electron microscopes produce [2D | 3D | 4D] images of the cell. (circle)

9. Specimens viewed under electron microscopes must first be [preserved | stained]. (circle)

10. Using the timeline, place the following in order of their discovery, from the earliest to the latest

- _____ All plants are made of cells
- _____ Cells organelles may have once been free-living organisms
- _____ The first cells were seen and a book published with drawings
- _____ All animals are made of cells
- _____ Observation of organisms living in pond water
- _____ Cells can only come from other cells

11. What type of microscope is needed to observe single atoms? _____

12. What two things do ALL cells have? _____

13. Define nucleus: _____

14. Cells are categorized depending on whether or not they have a _____

15. The greek word "eu" means _____ whereas "pro" means _____

16. Prokaryote cells have _____ material that is not contained in a _____

17. What type of organisms are prokaryotes? _____

18. Prokaryotes grow, reproduce and _____

19. What four organisms are classified as eukaryotes? _____

20. Eukaryotic cells are [smaller | larger] than prokaryotes.

