

Enduring Understanding: I can explain how living systems are organized in a hierarchy of structural levels that interact.



AP Bio Topic 2.1 & 2.2 – Cell Organelles video notes

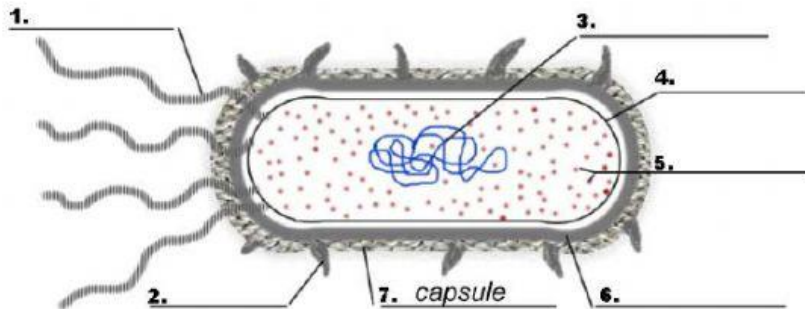
1. What are the two main types of cells? _____
3. Name different types of eukaryotic cells. _____
2. What is the main difference between prokaryotic and eukaryotic cells? _____

3. What two categories are prokaryotic cells divided into? _____
4. Describe Archaea cells. _____
5. Describe the nucleoid region of prokaryotic cells. _____
6. Name four key differences between prokaryotic and eukaryotic cells.
- _____
- _____
- _____
- _____
- _____
7. What is located in the nucleus? _____ What occurs in the nucleus? _____
8. How does mRNA exit the nucleus? _____
9. Our DNA wraps around _____ proteins. When our DNA is unwrapped it is called _____

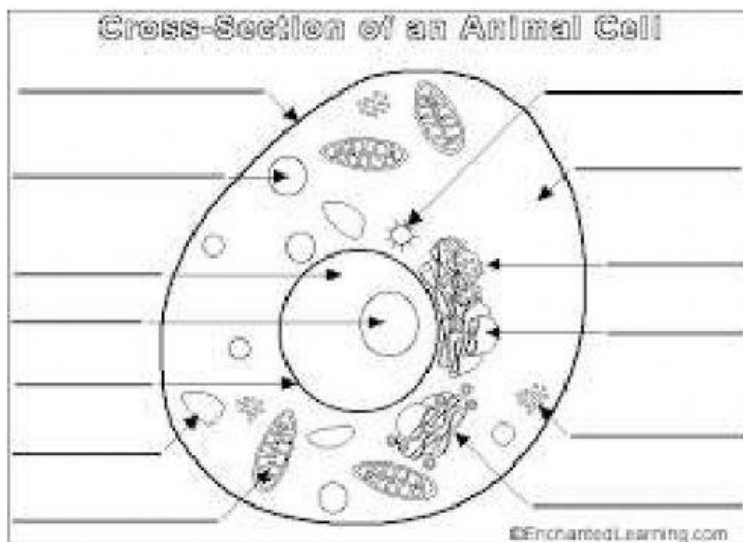
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Label the following prokaryotic cell below



Label the following eukaryotic cell below



10. The nuclear envelope is made up _____ the same building blocks of _____
11. What are the two types of ribosomes? _____
12. What is the difference between the two types of ribosomes? _____
13. What are peptide bonds and how are they formed? _____
14. Ribosomes attached to the rough er make proteins that will _____
15. What functions does the smooth er have? _____

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16. What are the functions of the golgi apparatus? _____

17. What organelles are involved in the endomembrane system? _____

18. Explain the steps of the endomembrane system. _____

19. What are the functions of the mitochondria? _____

20. Explain endosymbiosis. _____

21. What are the functions of the lysosome? _____

22. What is the environment like inside lysosomes? Explain why. _____

23. What are the functions of chloroplasts? _____

24. What are the functions of vacuoles? _____