

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? _____

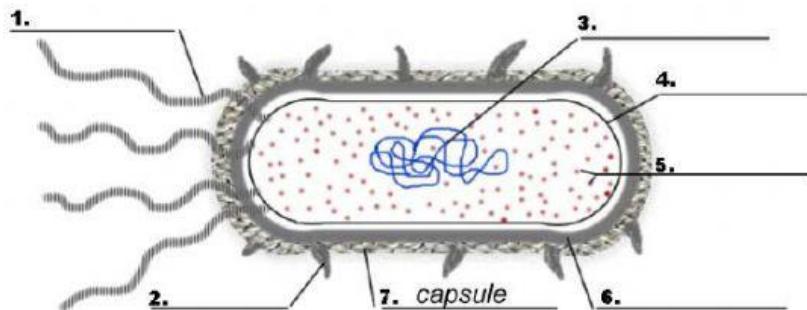
8. How does mRNA exit the nucleus? _____

9. Our DNA wraps around _____ proteins. When our DNA is unwrapped it is called _____

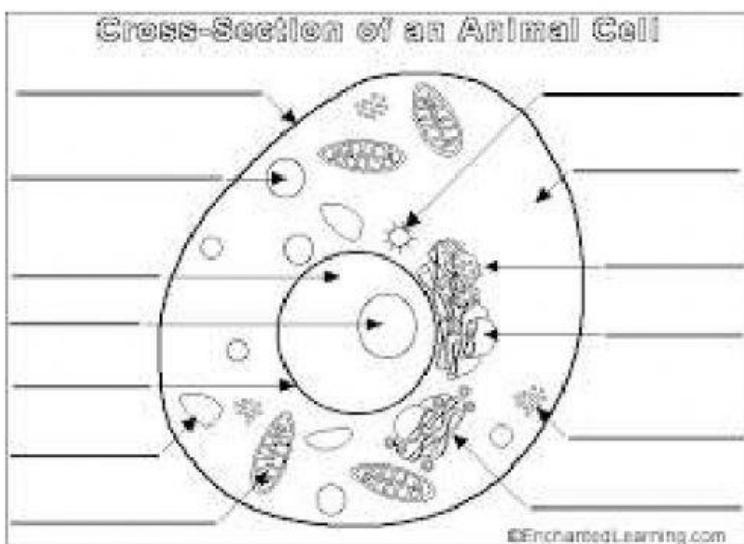
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Label the following prokaryotic cell below



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? _____

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