

Name \_\_\_\_\_ Period \_\_\_\_\_

## Chapter 6: A Tour of the Cell

*Concept 6.1 To study cells, biologists use microscopes and the tools of biochemistry*

1. The study of cells has been limited by their small size, and so they were not seen and described until 1665, when Robert Hooke first looked at dead cells from an oak tree. His contemporary, Anton van Leeuwenhoek, crafted lenses; and with the improvements in optical aids, a new world was opened. *Magnification* and *resolving power* limit what can be seen. Explain the difference.

Magnification: Ratio of actual size to visible size  
Resolving power: Clarity

2. The development of electron microscopes has further opened our window on the cell and its organelles. What is considered a major disadvantage of the electron microscopes?

Cell dies in the process

3. Study the electron micrographs in your text. Describe the different types of images obtained from:  
**scanning electron microscopy (SEM)**

Detail of surface textures (What it looks like)

**transmission electron microscopy (TEM)**

Detail of components (What makes up it)

4. In *cell fractionation*, whole cells are broken up in a blender, and this slurry is centrifuged several times. Each time, smaller and smaller cell parts are isolated. This will isolate different organelles and allow study of their biochemical activities. Which organelles are the smallest ones isolated in this procedure?

**Ribosomes**

*Concept 6.2 Eukaryotic cells have internal membranes that compartmentalize their functions*

5. Which two domains consist of prokaryotic cells?

Archaea, Bacteria

6. A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.

# Chapter 27 Ap Bio Reading Guide Answers Quizlet

**Katrin Zwirglmaier**



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## Embracing the Melody of Appearance: An Emotional Symphony within **Chapter 27 Ap Bio Reading Guide Answers Quizlet**

In a world used by displays and the ceaseless chatter of instant interaction, the melodic elegance and emotional symphony developed by the prepared word usually fade in to the background, eclipsed by the constant noise and interruptions that permeate our lives. However, situated within the pages of **Chapter 27 Ap Bio Reading Guide Answers Quizlet** an enchanting fictional prize full of natural emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that interesting masterpiece conducts viewers on a psychological journey, skillfully unraveling the hidden melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of the emotional review, we shall examine the book is central harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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