

Name: _____

AP Biology

Chapter 4 Active Reading Guide **A Tour of the Cell**

Section 1

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.
2. The development of electron microscopes has further opened our window on the cell and its organelles. What is considered a major disadvantage of electron microscopes?
3. Study the electron micrographs in your text. Describe the different types of images obtained from:
scanning electron microscopy (SEM):

transmission electron microscopy (TEM):
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?

Section 2

5. Which two domains consist of prokaryotic cells?
6. A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.

Active Reading Guide

Geoffrey Alexander Jehle



Active Reading Guide:

Easy Speed Reading Guide MD Sharr, 101-01-01 The chapters in this book are designed to guide you through the speed reading process from understanding your learning style and setting goals to pre reading strategies note taking summarizing and mental imaging techniques You will also learn how to develop peripheral vision rehearse information review and practice reading strategies and address weaknesses to push past your limits Throughout the book you will find exercises and activities to help you apply the strategies and techniques along with tips and tricks to help you overcome common obstacles By incorporating these techniques into your reading habits you will be able to read more efficiently and effectively Whether you are a student a professional or simply someone who wants to read more efficiently and effectively Easy Learning Speed Reading is the perfect guide to help you achieve your goals

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
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