

Chapter 3 Reading Guide - Cell Structure and Function

Case Study: What's Happening to me? (p. 242)

1. _____ What type of medical problem did David have?
 - a. Weakness in his legs
 - b. Loss of hearing
 - c. Loss of vision
 - d. Upset stomach
2. _____ What was causing the problem?
 - a. An infection caused by a virus
 - b. A genetic defect in his cells' lysosomes
 - c. A genetic defect in his cells' mitochondria
 - d. An infection caused by a bacteria

The Discovery of the Cell (p. 243-245)

3. Cells remained unknown for most of human history because we couldn't see them. What invention changed all of this with a dramatic advance in technology?

Answer the next few questions with either "H" for Robert Hooke, "L" for Anton van Leeuwenhoek, and "S" for Schleiden and Schwann.

4. _____ Looked at cork, a plant material
5. _____ observed pond water
6. _____ First person to use the name "cells"
7. _____ Found tiny organisms in water and in his own mouth

Complete the following statements about the cell theory. (Use the key ideas printed in blue on page 242.)

8. All living things are made up of _____.
9. Cells are the basic units of _____ and _____ in living things.
10. _____ cells are produced from existing cells.

Exploring the Cell (p. 244-245)

11. Microscopes work by using beams of _____ or electrons to produce magnified images.
12. A compound light microscope uses two lenses to form an image.
 - a. The _____ lens is located just above the specimen.
 - b. The second lens, called the _____ lens, is near the top of the microscope.
13. Chemical stains or _____ are used to help make cells and their parts more visible.
14. Instead of using light, electron microscopes use beams of electrons, focused by _____ fields.

Word Bank:
cells
lens
light
objective
magnetic
micrograph
ocular
transmission

**Chapter 8 Section 1 Guided Reading Science Urban Life
Answer Key**

L Reisser



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