

Cellular Structure and Function

Before You Read

Use the “What I Know” column to list the things you know about cells. Then list the questions you have about cells in the “What I Want to Find Out” column.

K What I Know	W What I Want to Find Out	L What I Learned

Science Journal

Imagine that you are small enough to fit inside a cell. Describe what you think you might observe while you are there.

Cellular Structure and Function

Section 1 Cell Discovery and Theory

Main Idea _____

Details _____

Skim Section 1 of the chapter. Write three questions that come to mind from reading the headings and the illustration captions.

1. _____
2. _____
3. _____

Review Vocabulary

Use your book or dictionary to define organization.

organization _____

New Vocabulary

Use your book or dictionary to define each term.

cell _____

cell theory _____

plasma membrane _____

organelle _____

eukaryotic cell _____

nucleus _____

prokaryotic cell _____

Section 1 Cell Discovery and Theory (continued)

Main Idea _____

Details _____

History of the Cell Theory

I found this information on page _____.

Identify *the three main ideas of the cell theory. Then write a short sentence for each one describing each idea.*

Microscope Technology

I found this information on page _____.

Summarize *information about electron microscopes using five or six bullet points.*

Section 1 Cell Discovery and Theory (continued)

Main Idea _____

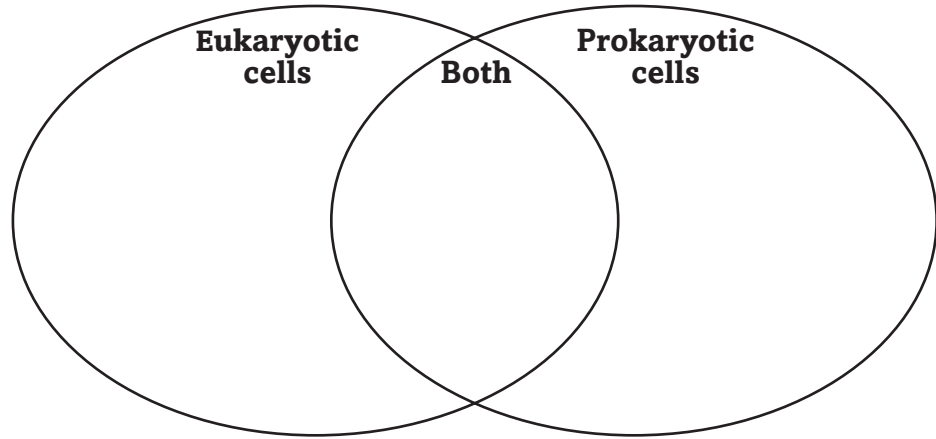
Details _____

Basic Cell Types

I found this information on page _____.

Compare and contrast *eukaryotic and prokaryotic cells by putting the phrases in the Venn diagram.*

- bacteria
- contain organelles
- have a nucleus
- have membrane-bound organelles
- multicellular organisms
- unicellular organisms
- do not have membrane-bound organelles



Relate *the basic cell types by filling in the missing terms*

The _____ cell is larger and more complex than the _____ cell. Eukaryotic cells contain a structure called the _____ which is a distinct central organelle that contains the cell's _____ material. _____ are specialized structures that carry out specific cell functions. The cell, nucleus, and all of the organelles are surrounded by a _____. Prokaryotes do not have _____. Their cell functions occur _____ the cell or on the plasma membrane.

SUMMARIZE

Analyze how more sophisticated microscopes have allowed scientists to advance their knowledge of cells.
