

Exploration Student Worksheet: Cell Structure and Function

Overview

Every living cell is surrounded by a cell membrane, which envelopes many organelles. In this Exploration, you identify the structures and functions of these organelles.

Questions

1. Differentiate between a plant cell and an animal cell.

2. Describe the structure and function of the nucleus.

3. Explain how prokaryotic cells are different from eukaryotic cells.

Name _____ Date _____

4. Explain the role of cellular organelles in protein synthesis.

5. Describe the role of cytoplasm in the cell.

6. Give an example of functional differences between cells belonging to two different parts of the human body.

7. Endoplasmic reticulum is of two types. Name these two types and state the differences between them.

Name _____ Date _____

8. Chloroplasts are present only in plant cells. Describe the structure and function of these specialized organelles.

9. Explain why mitochondria are called power houses of the cell.

10. Mesosomes are no longer considered a part of the cell. Give reasons for this exclusion.