

Prokaryotic and Eukaryotic Cells

Use with textbook pages 26-29.

1. Complete the concept definition maps for a prokaryotic cell and a eukaryotic cell. Give the definition, characteristics, and examples for these two main types of cells.

What Is It? - Definition

Concept

Prokaryotic Cell

Characteristic

Characteristic

Characteristic

Example

Example

Example

What Is It? - Definition

Concept

Eukaryotic Cell

Characteristic

Characteristic

Characteristic

Example

Example

Example

2. What key feature is used to classify cells into two categories: prokaryotic and eukaryotic? _____

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

4. A student looks at several slides under the microscope of four different cells. Classify these cells as prokaryotic or eukaryotic and explain what characteristic is used to place these cells into each group.

a) stem cell _____

b) heart cell _____

c) halophile (archaea that live in high salt environments)

d) streptococcus (bacterium that causes strep throat)
