



Two Kinds of Cells

Engage

Prefixes and Suffixes

Below is a chart showing prefixes and suffixes of common scientific words and what they mean.

Find the prefixes and suffixes of the words below the chart and write their meanings on the lines.

Prefix	Meaning
Auto-	self
Eu-	easily formed
Hetero-	other
Multi-	many
Pro-	before
Uni-	one
Chloro-	green

Suffix	Meaning
-karyotic	nucleus
-cellular	having cells
-phyll	leaf
-trophic	feeder

1. Prokaryotic _____
2. Eukaryotic _____
3. Unicellular _____
4. Multicellular _____
5. Autotrophic _____
6. Heterotrophic _____
7. Chlorophyll _____

7. A plant is considered autotrophic. Use what you know about how plants get food to explain what autotrophic means.

8. An animal is considered heterotrophic. Use what you know about how animals get food to explain what heterotrophic means.

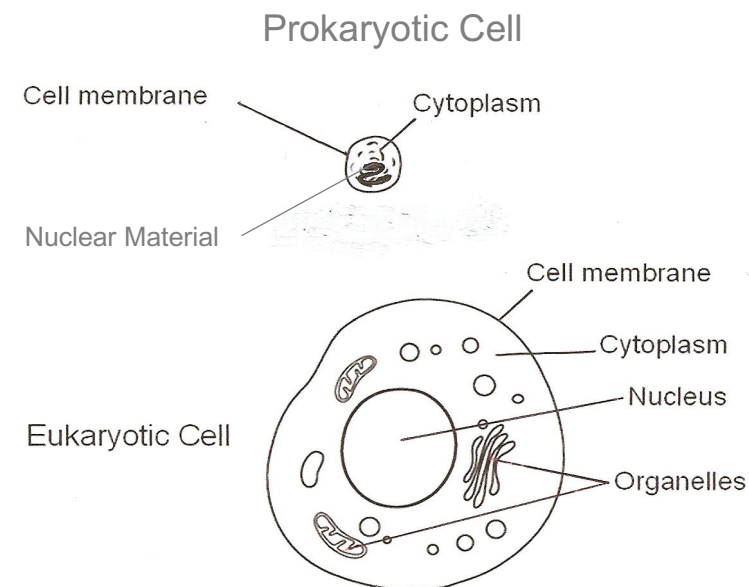
Explore



Materials: colored pencils

What To Do:

1. Color the nucleus blue.
2. Color the nuclear material blue.
3. Outline the cell membrane in red.
4. Color the cytoplasm yellow.
5. Color the organelles purple.



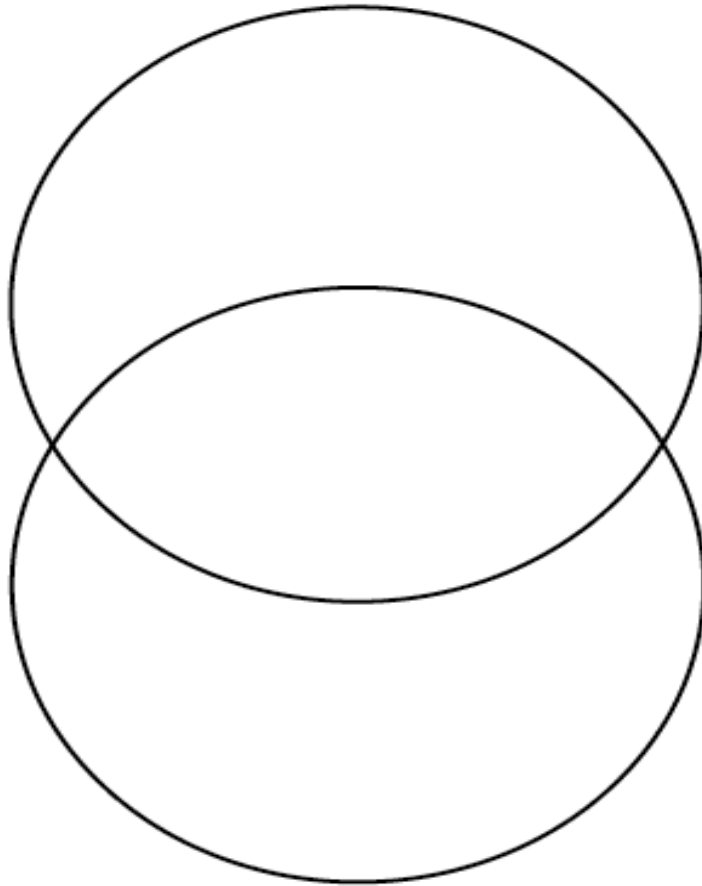


Explain

Work with your teacher to complete the Venn diagram comparing Prokaryotic Cells with Eukaryotic Cells below.

Eukaryotic Cells

Prokaryotic Cells



Elaborate



Materials: construction paper - various colors, scissors, glue

What To Do:

1. Make a Prokaryotic Cell and a Eukaryotic Cell out of construction paper.
2. Glue one in the space below and the other on the next page.
3. Use different colors for each organelle.
4. Label each organelle with its correct name.

Prokaryotic Cell



Eukaryotic Cell

Evaluate



Name _____ period _____

EXIT TICKET

Two Kinds of Cells

1. What does prefix pro mean?
 - A. one
 - B. more than one
 - C. after
 - D. before
2. What does the suffix karyotic mean?
 - A. nucleus
 - B. organs
 - C. feeder
 - D. cell membrane
3. Which of the following is NOT found in prokaryotic cells?
 - A. Cell membrane
 - B. Cytoplasm
 - C. Nuclear material
 - D. Nucleus
4. An organism that is multicellular has -
 - A. only one cell
 - B. many cells
 - C. a life in water
 - D. a life in space