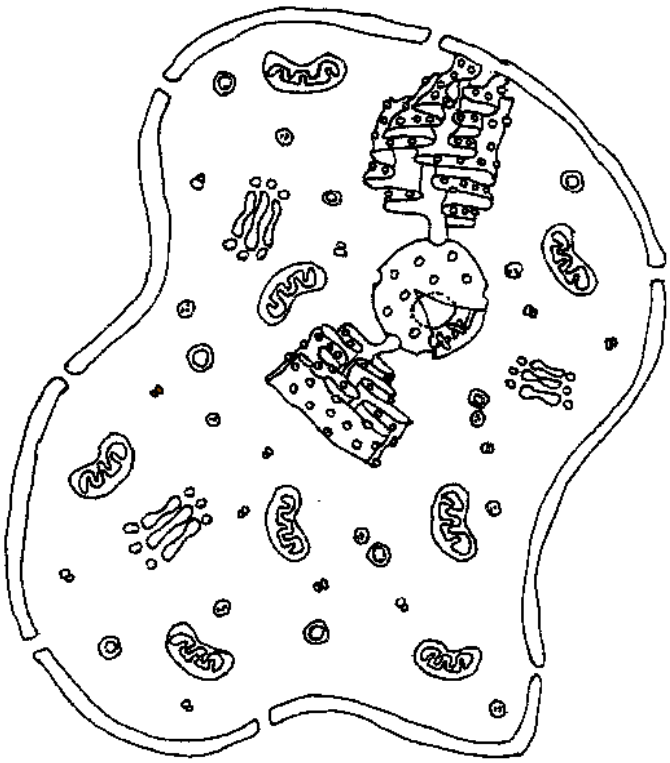
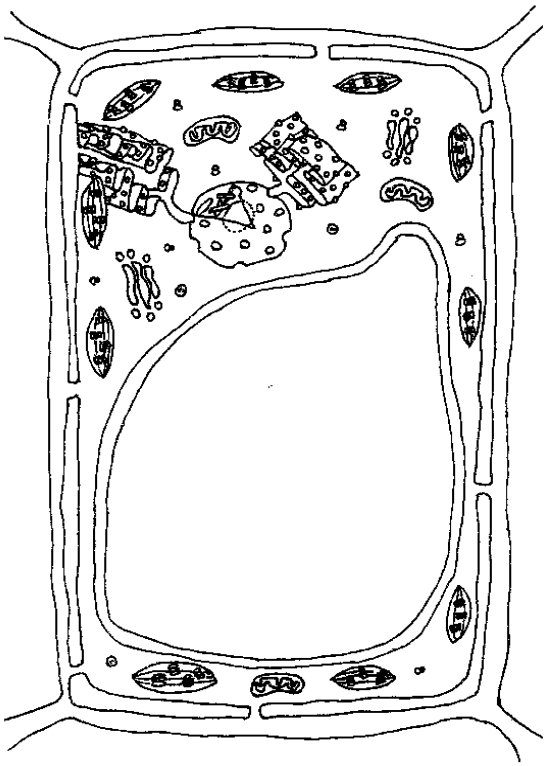
A Book About Cells





Written and Illustrated by Ms. Gould

The Cell Theory

- Cells were _____ in _____ by _____, who _____ _____ under a microscope
- He saw _____
- He called them _____
- Several _____ worked _____ to _____ the _____ which states:
  - ◇ _____
  - ◇ _____
  - ◇ _____
- Cells _____
- Because _____, the _____ _____ before scientists could study them

• Cells are _____ very tiny structures called _____

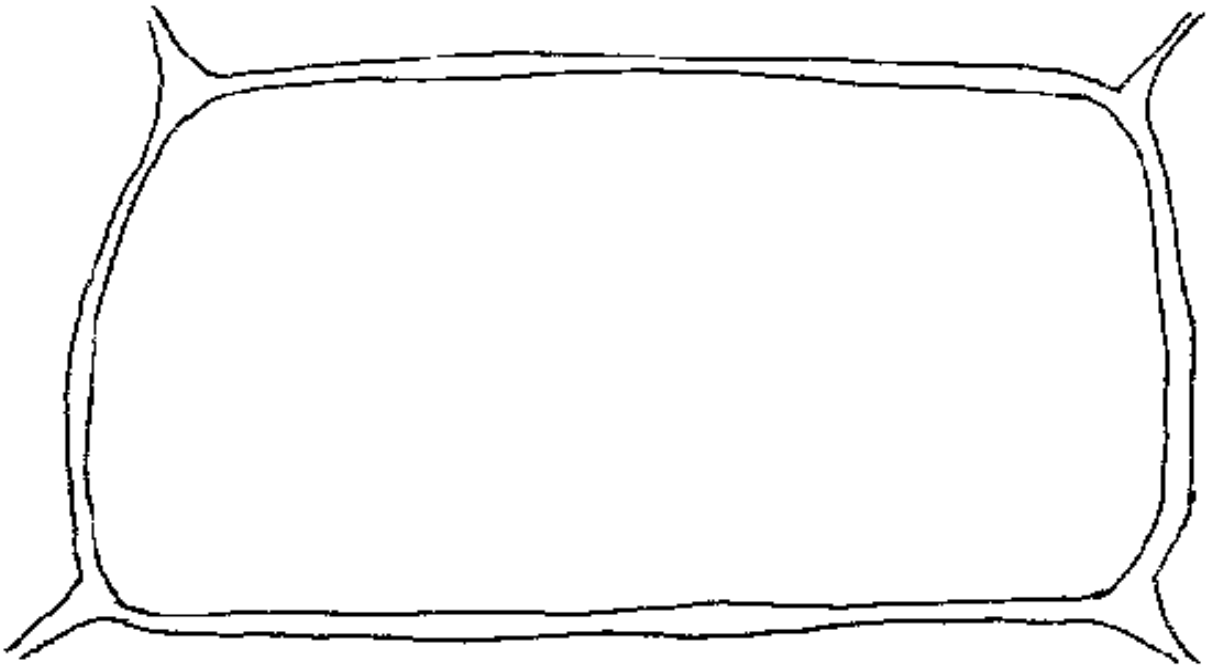
• Plant cells and Animal cells have _____ structures but have _____

As you learn about the different parts of the cell, complete the table below by checking off the parts that each type of cell contains:

Plant Cell		Animal Cell
☐	Cell Wall	☐
☐	Cell Membrane	☐
☐	Nucleus	☐
☐	Cytoplasm	☐
☐	Endoplasmic Reticulum	☐
☐	Ribosomes	☐
☐	Golgi Bodies	☐
☐	Mitochondria	☐
☐	Vacuoles	☐
☐	Lysosomes	☐
☐	Chloroplasts	☐

Cell Wall

This is what the cell wall looks like. Color it blue-green.



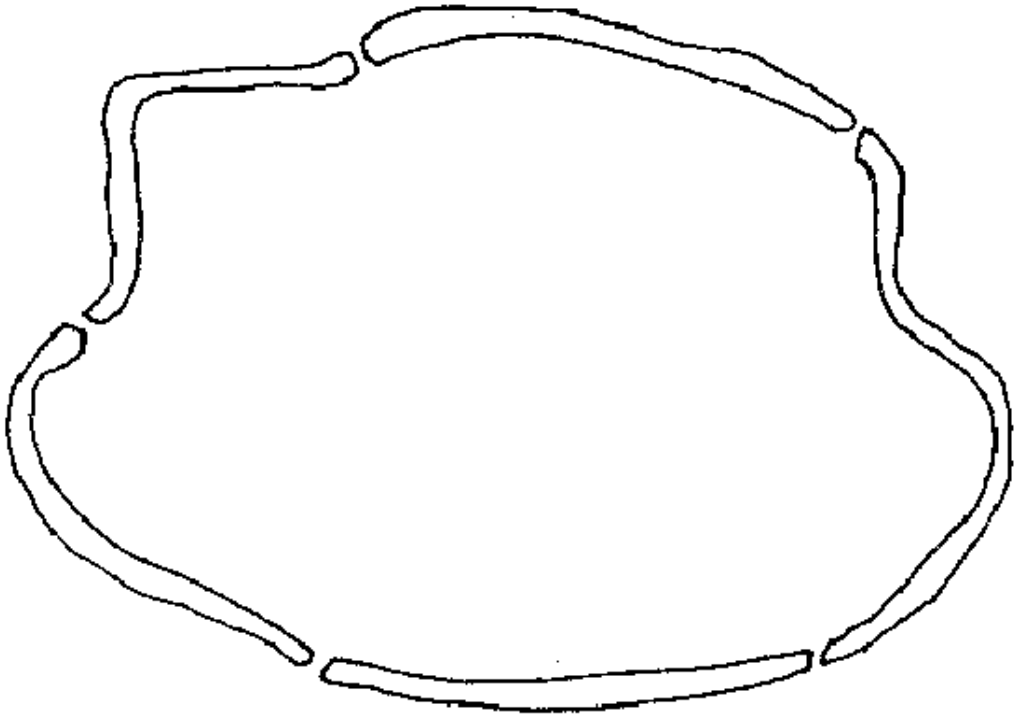
- _____ wall made of _____
- Found _____
- Helps to _____and _____ the cell
- Also _____ to _____

In a school it is like: _____

In a city it is like: _____

Cell Membrane

This is what the cell membrane looks like. Color it purple.



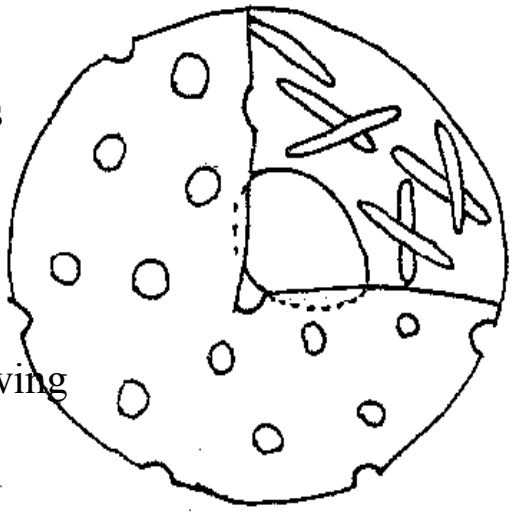
- Just _____ in _____
- _____ of an _____
  - ◇ Contains _____ to _____
- _____ and _____ the cell
- _____ what _____ and _____

In a school it is like: _____

In a city it is like: _____

Nucleus

This is what the nucleus looks like. Color it orange.



- Found in _____ and _____ cells
- "_____"
  - ◇ _____all of the _____
- Large oval structure that is made of the following parts:

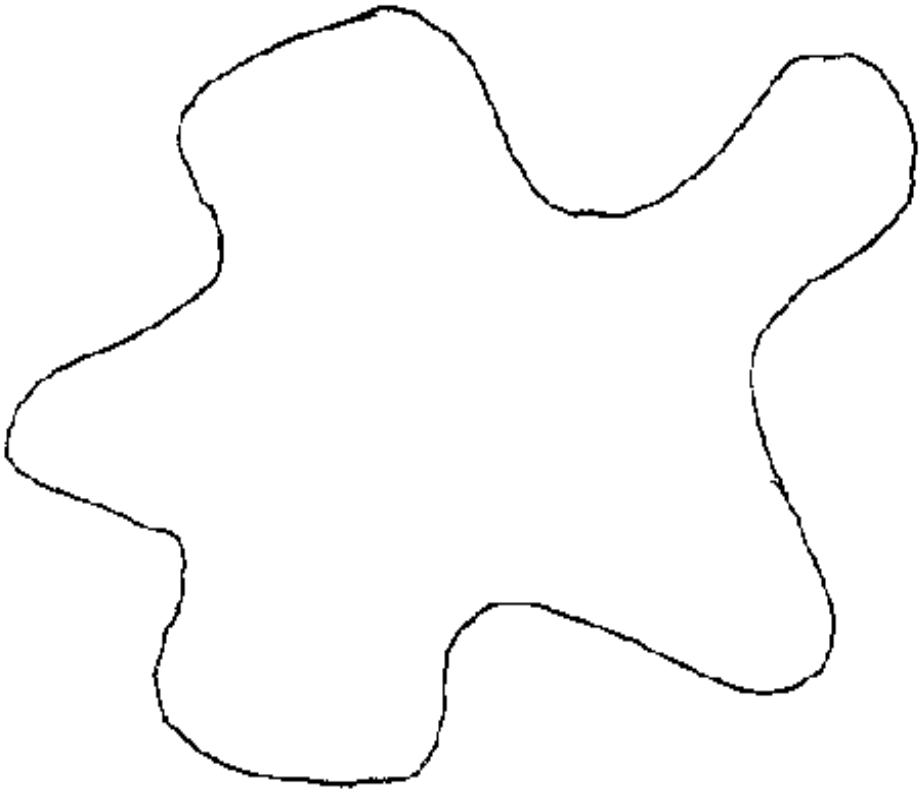
- Nuclear Membrane= _____ _____
- Nuclear Pores= _____ _____
- Chromosomes= _____
  - ◇ _____ of the cell
  - ◇ made of _____- the "_____" of the cell
- Nucleolus= _____
  - ◇ believed to be the _____

In a school it is like: _____

In a city it is like: _____

Cytoplasm

This is what the cytoplasm looks like. Color it yellow.



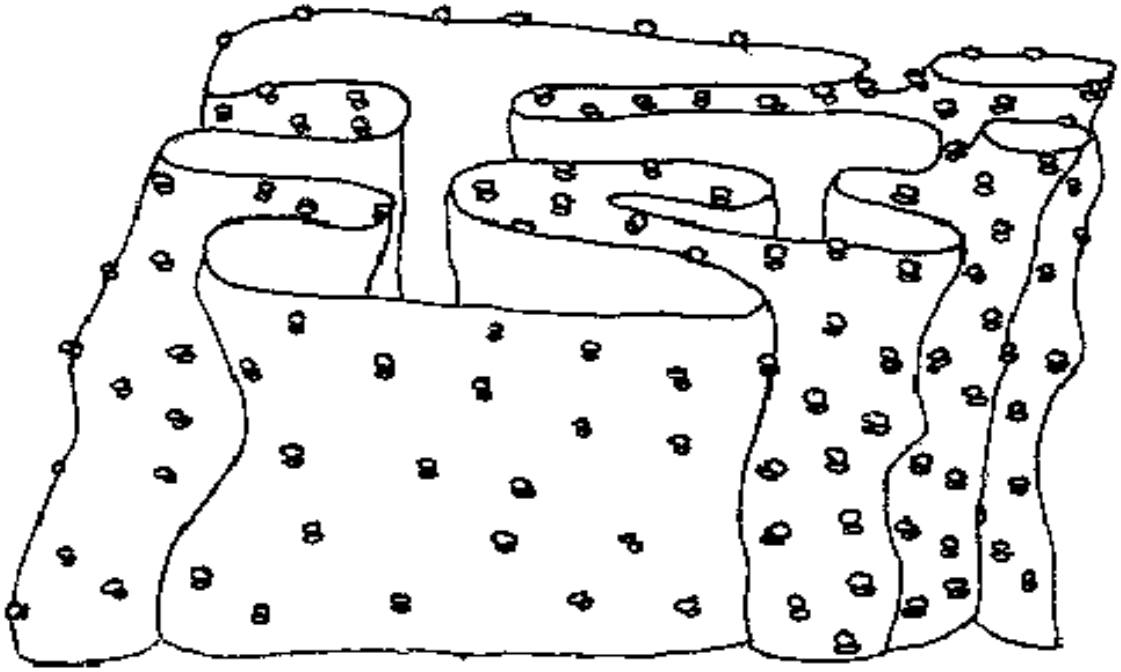
- Found in _____ and _____ cells
- _____, _____, _____-_____ substance
- The _____ the _____ and the _____
- _____ or _____ inside the cell
- _____ the _____

In a school it is like: _____

In a city it is like: _____

Endoplasmic Reticulum

This is what the endoplasmic reticulum looks like. Color it pink.



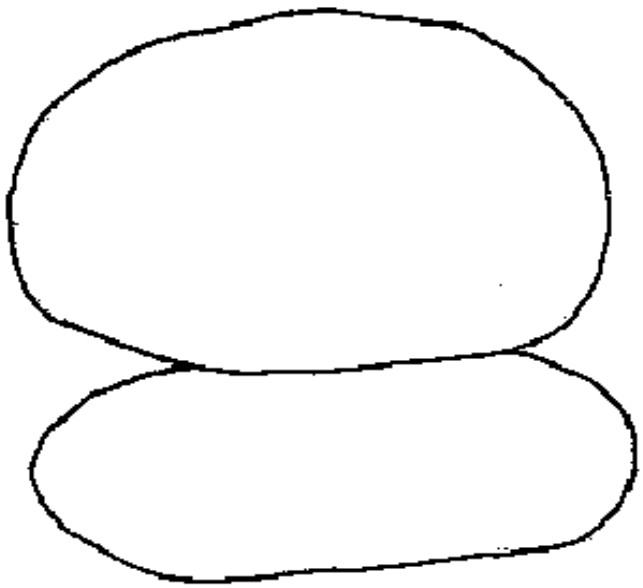
- Found in _____ and _____ cells
- _____ of cell
- _____, _____ _____
- Leads _____ to:
  - ◇ _____
  - ◇ _____
- _____ through the cell

In a school it is like: _____

In a city it is like: _____

Ribosomes

This is what the ribosomes look like. Color them brown.



- Found in _____ and _____ cells
- _____ structures found _____ _____ and floating in the _____
- They are _____ the _____
- _____ for the cell
  - ◇ They _____ in the _____ _____ to be _____ the cell

In a school it is like: _____

In a city it is like: _____

Golgi Bodies

This is what the Golgi bodies look like.Color them blue.

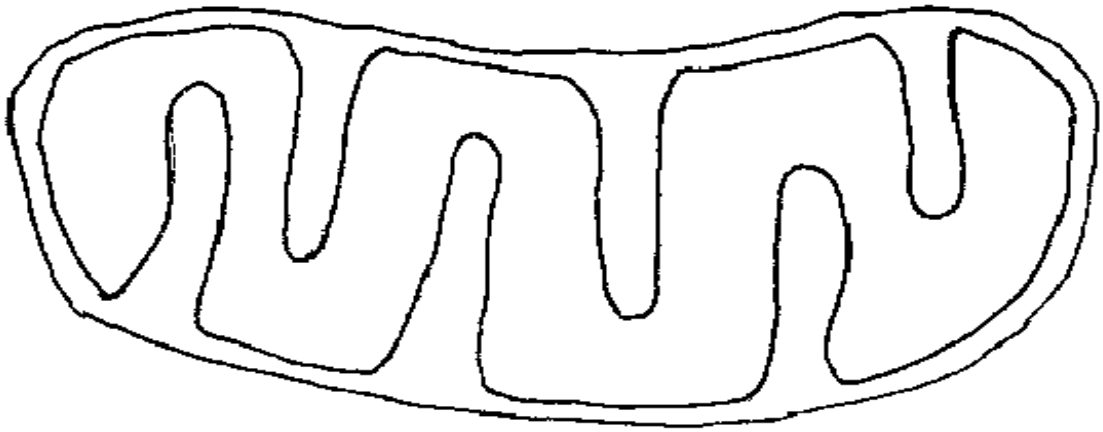
- Found in _____ and _____ cells
- _____ of _____
- _____ made by the cell
    - ◇ For example: _____

In a school it is like: _____

In a city it is like: _____

Mitochondria

This is what the mitochondria look like. Color them red.



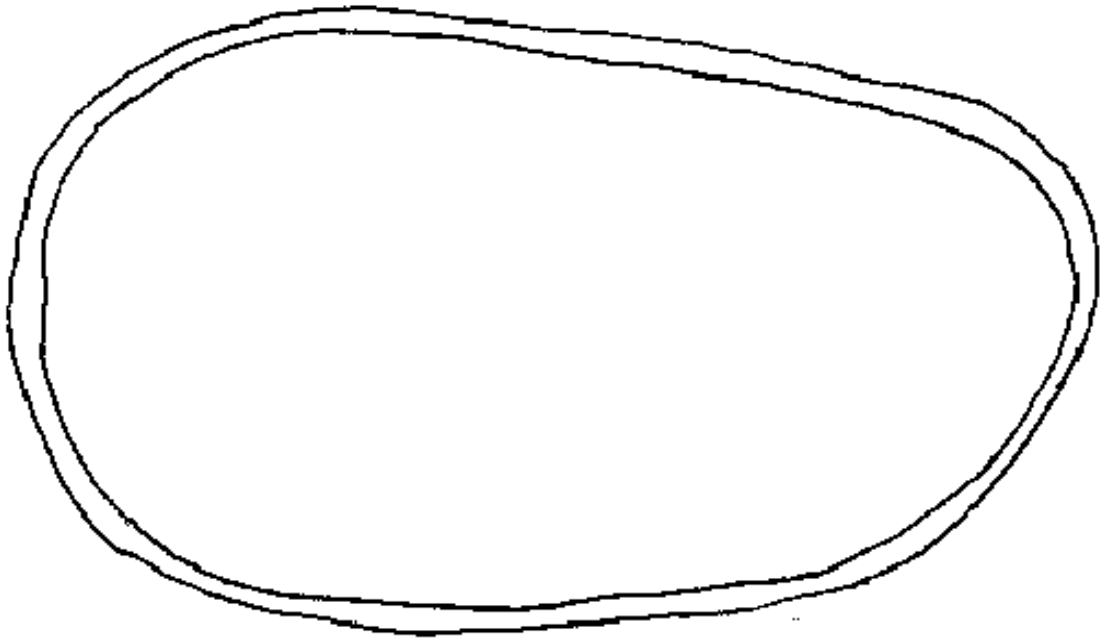
- Found in _____ and _____ cells
- _____ structures
- "_____" of the cell
  - _____ into _____ and _____
  - _____ large amounts of _____
  - Energy is _____
  - Process is called _____

In a school it is like: _____

In a city it is like: _____

Vacuoles

This is what the vacuoles look like. Color them red-violet.



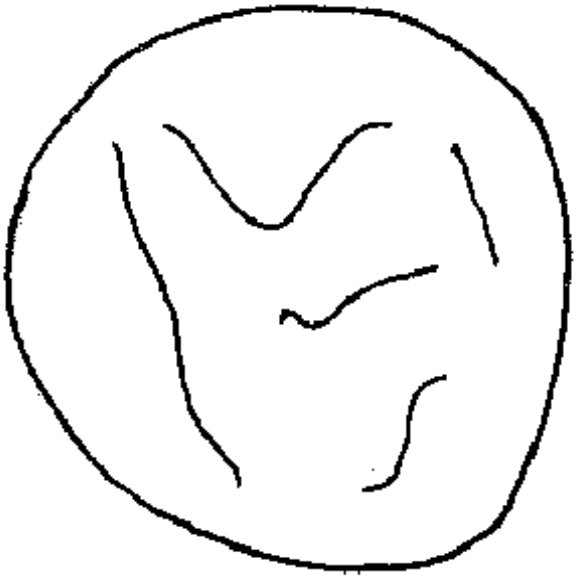
- _____
- _____ for the cells
  - ◇ Store _____ and _____
  - ◇ Can also store _____
  - ◇ _____
- _____ usually have _____
- _____ have a _____ or _____ at all

In a school it is like: _____

In a city it is like: _____

Lysosomes

This is what the lysosomes look like. Color them gray.



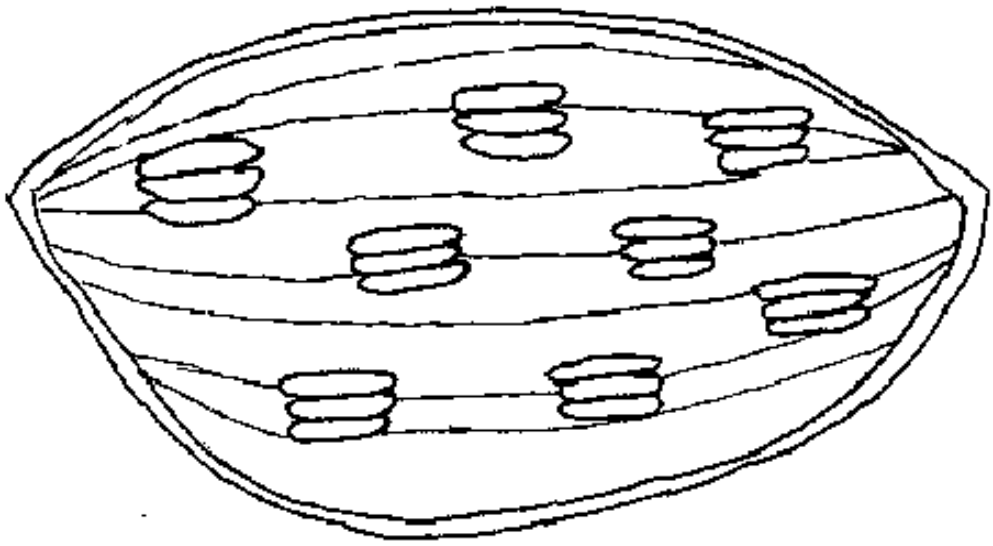
- _____ cells but _____ cells
- _____ structures
- _____ (chemicals)
  - ◇ _____
  - ◇ _____
  - ◇ _____
- Known as the "_____" of the cell

In a school it is like: _____

In a city it is like: _____

Chloroplasts

This is what the cholorplasts look like. Color them green.



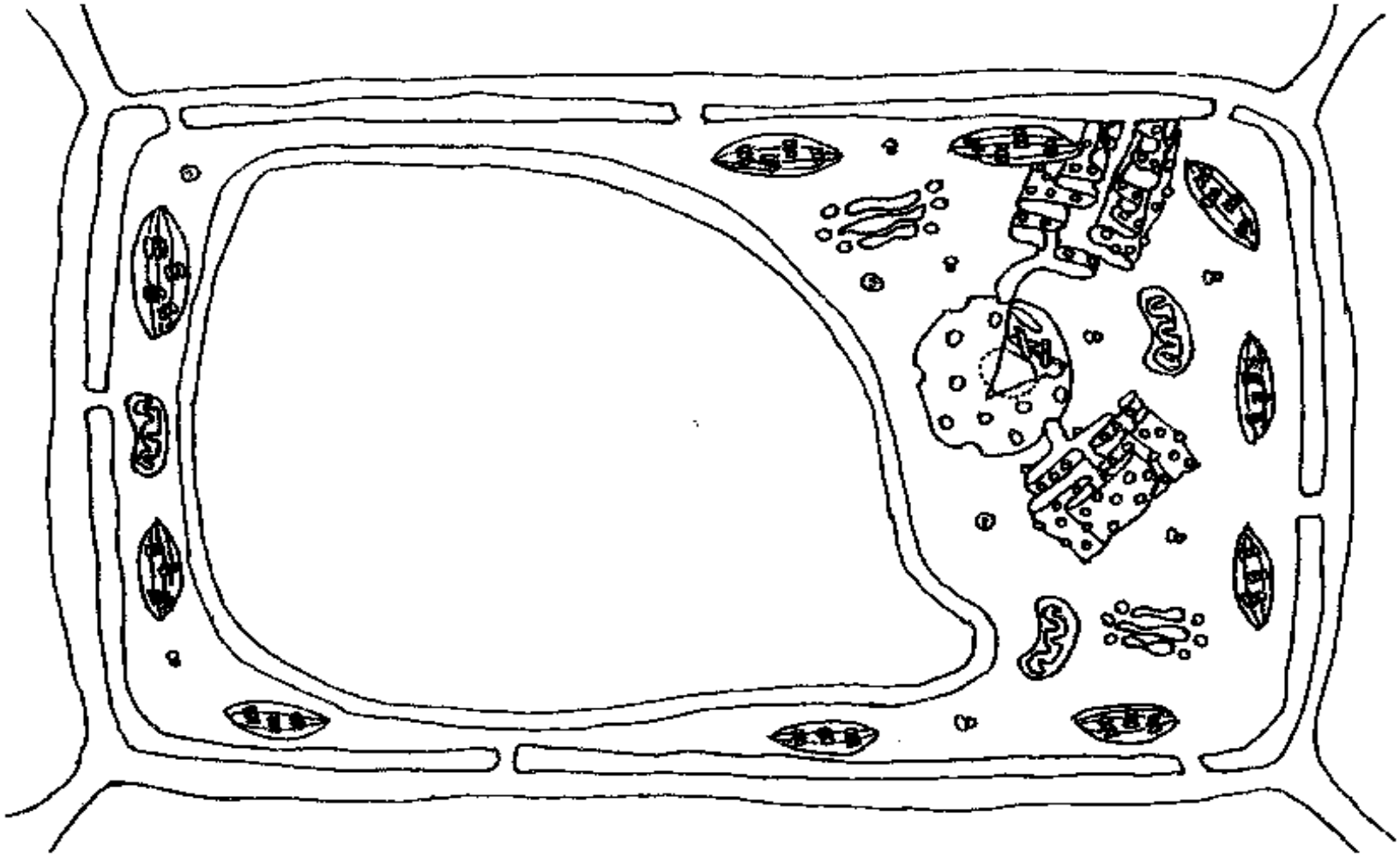
- Found _____ in _____ cells
- _____ structure
- Contain _____
  - ◇ A _____
- Chlorophyll _____ to _____ for the plant cell
  - ◇ Process is called "_____"

In a school it is like: _____

In a city it is like: _____

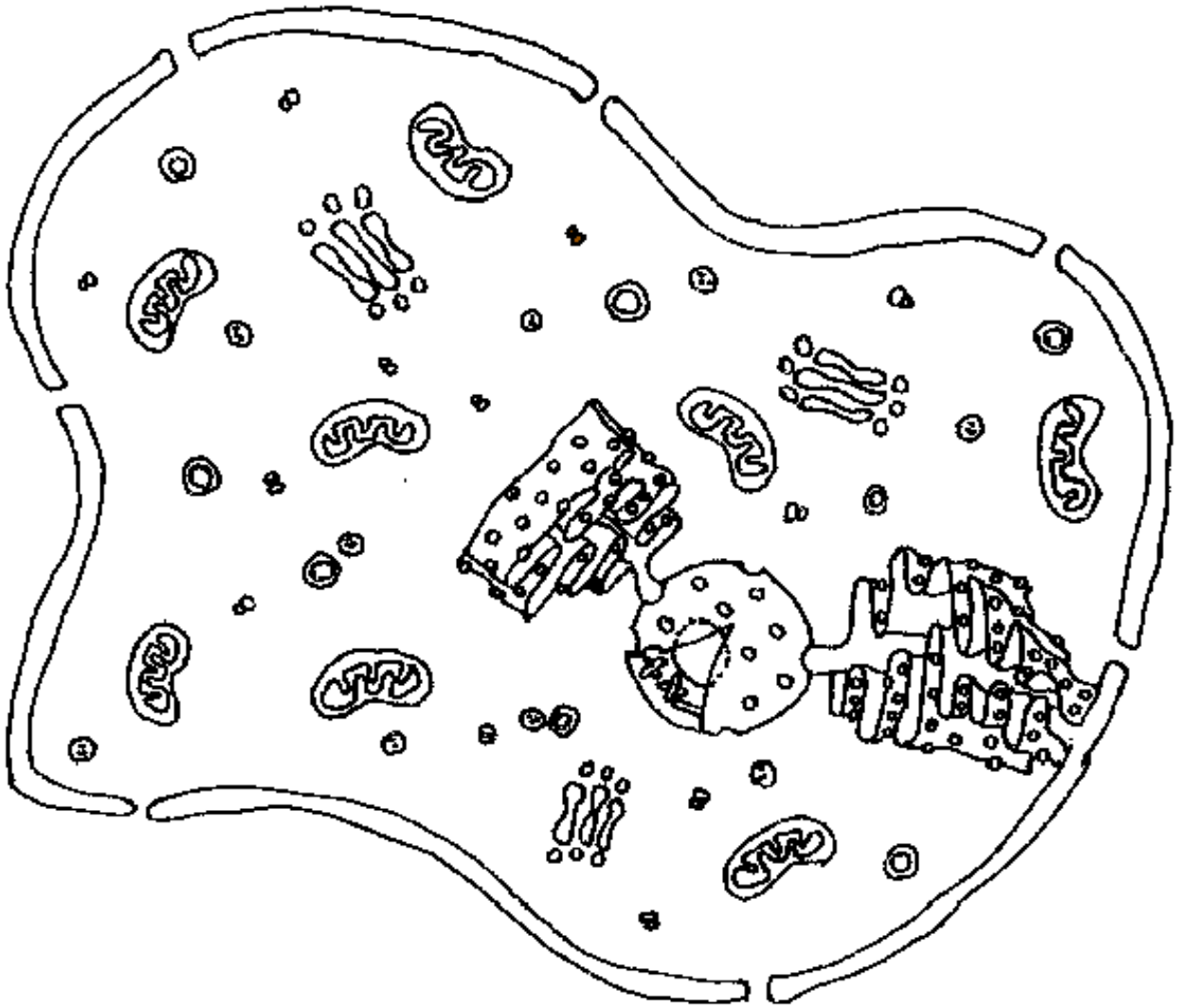
Typical Plant Cell

Color in the cell parts the same colors that you have already used.



Typical Animal Cell

Color in the cell parts the same colors that you have already used.

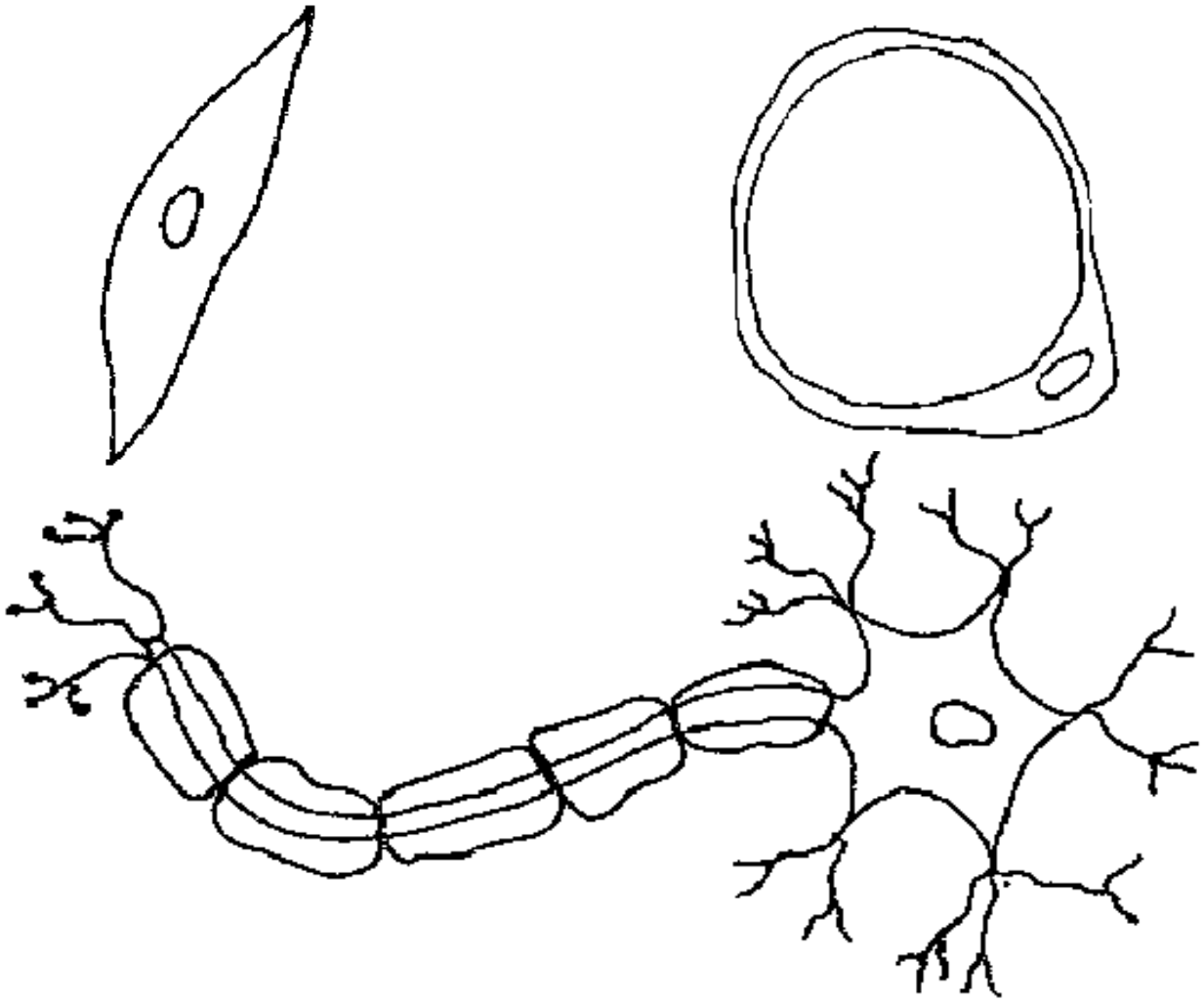


Cell Specialization

- Cells come in _____
  - ◇ An average _____ is _____ in size
  - ◇ An average _____ is _____ in size
  - ◇ _____
- Cells have _____
  - ◇ Called _____

Muscle Cell

Fat Cell



Nerve Cell

Cell Organization

- _____ carry out _____

- _____that _____ _____ and _____ _____ form _____

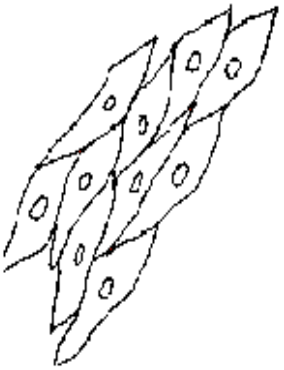
- _____ that do _____ can _____ _____ to form _____

- _____ that _____ _____ to do a _____ _____ form _____

- Several _____ working _____ to carry out the basic life functions form an _____

Muscle Cell

Muscle Tissue



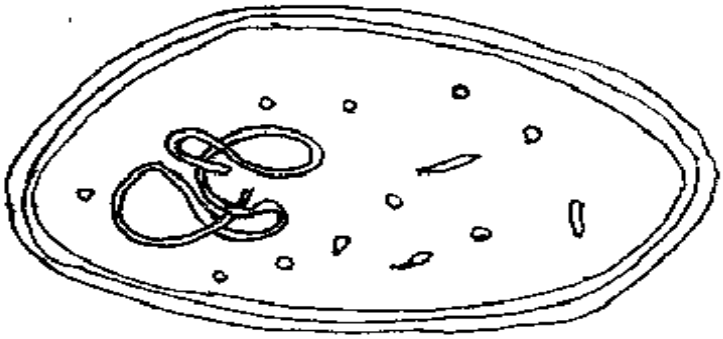
Heart (organ)

Circulatory System

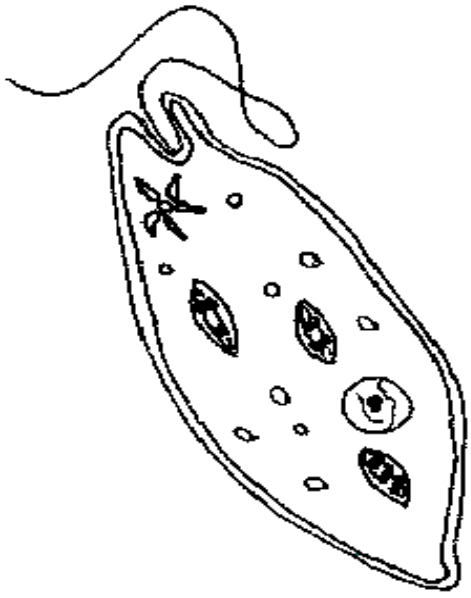
Single-Celled Organisms

• Some _____organisms _____ all of _____

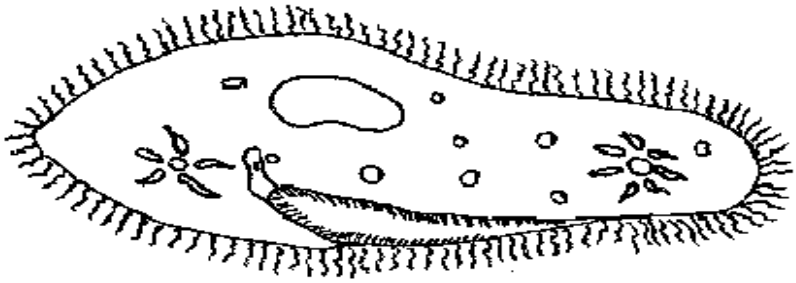
Bacteria



Euglena



Amoeba



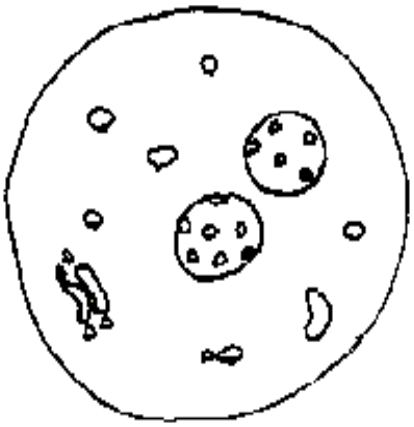
Paramecium

Cell Division

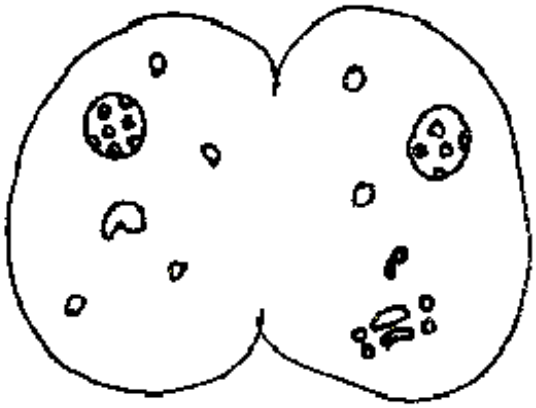
- Also called _____ or _____
- When the _____, _____ are _____ around the cell
- The cell _____

How It Works

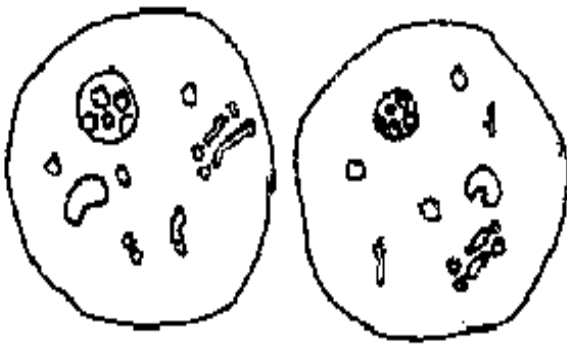
① First, the _____



② Then, it _____



③ It _____



⇨ Called "_____"

It's Alive

- Cells show the _____, just like humans do!

Complete the chart below by describing, or providing an example of, how cells and humans show the basic characterustucs of life.

Cell	Human
Made of Cells	
Grows and Develops	
Reproduces	
Produces Waste	
Adapts/Adjusts	
Has a Life Span	
Uses Energy	
Moves	
Responds	