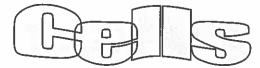
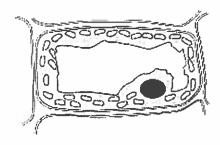


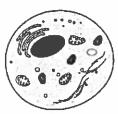
Life Processes and Living Systems (SOL 5.5)



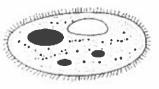
- Living things are made of <u>cells</u>. Cells carry out all life processes. New cells come from existing cells. Cells are too small to be seen with the eye alone. By using a microscope, many parts of a cell can be seen.
- Though plant and animal cells are similar, they are also different in shape and in some of their parts. Plant cells tend to be rectangular.



 Animal cells tend to be spherical or at times irregular.

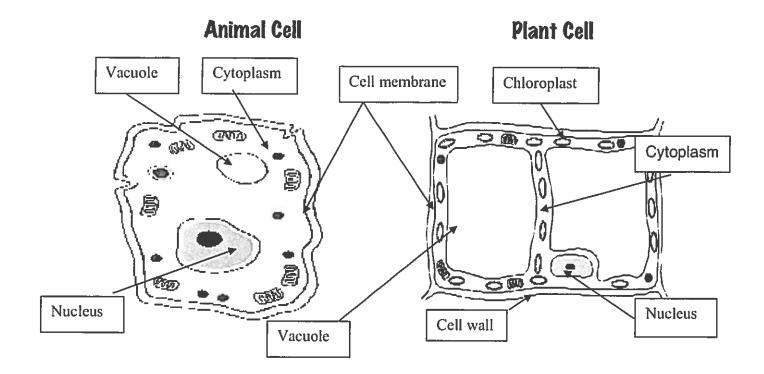






- Organisms that share similar characteristics can be organized into groups in order to help understand similarities and differences.
- Plants can be categorized as vascular (having special tissues to transport food and water for example, trees and flowering plants) and nonvascular (not having tissues to transport food and water for example, moss). Most plants are vascular.
- Animals can be categorized as <u>vertebrates</u> (having backbones) or <u>invertebrates</u> (not having backbones).

## FERENTE BETT



**Cytoplasm** - the clear, jelly-like substance inside a cell (animal and plant cells)

**Nucleus** - the part of the cell containing information to control the cell's activities (animal and plant cells)

**Cell membrane** - the thin, bag-like structure surrounding animal cells and surrounded by the cell wall of plant cells that allows certain materials to pass in and out of cell

Vacuole - a storage sac in a cell (animal and plant cells)

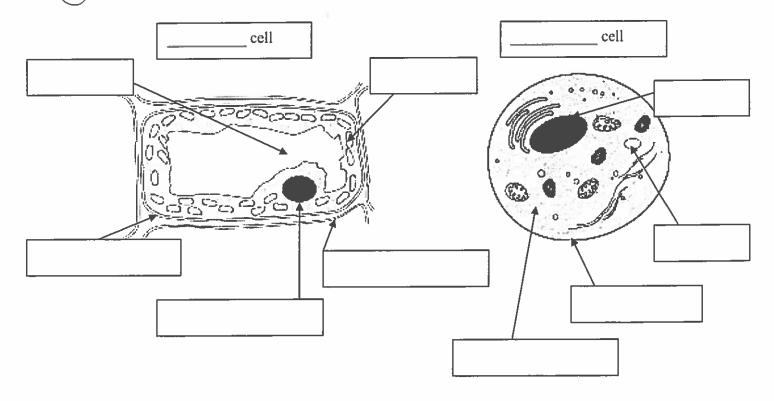
**Cell wall** - the sturdy, outermost structure surrounding plant cells that help to hold up the plant; made of nonliving cellulose (plant cells only)

**Chioroplast** – the structure in a plant cell, containing chlorophyll, where photosynthesis takes place (plant cells only)

Directions: Place a check in each box that describes a plant cell and an animal cell.

	Rectangular Shape	Spherical/ Irregular	Nucleus	Cytoplasm	Chloroplast	Vacuole	Cell Wall	Cell Membrane
Plant Cell								
Animal Cell								

Directions: Label the illustrations of the plant cell and animal cell.



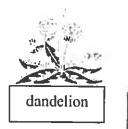
## VERGITED Plants

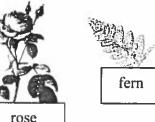
Structure: Plants that have roots, stems, leaves, and tubes to transport water throughout

the plant

Habitat: Live anywhere - shade or sun

Example: Daisy, rose, dogwood tree, and fern





## Nouverseder Penns

**Structure:** Plants that do not have roots, stems, or leaves and do not have tubes to transport water in the plant

Habitat: Moist, shady areas

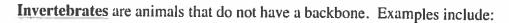
**Example:** Moss and liverworts



## Verlehreren line sein der Leiten eine Leit

Vertebrates are animals that have a backbone. Examples include:

• Mammals, fish, reptiles, birds, and amphibians



- Sponges
- Jellyfish, sea anemones, and coral
- Worms
- Mollusks such as clams, oysters, scallops, snails, and octopuses
- Arthropods such as crabs, shrimp, lobsters, spiders, insects, centipedes, and millipedes
- · Echinoderms such as sea urchins, sand dollars, and starfish





**Directions:** Place the examples under the correct heading.

fish dog snake bird squid dolphin worm lizard grasshopper sponges human crab starfish oyster

Vertebrates	Invertebrates		