

Study Guide

Test January 20th

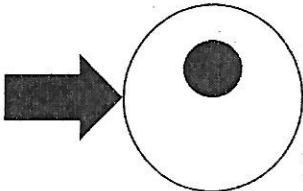
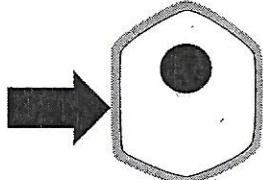
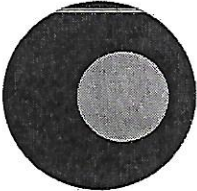
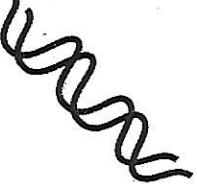
Student Sheets (Teacher's Version)






Activity 3: How is a Cell Like School?

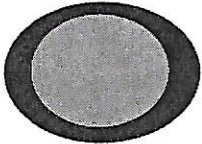


How is a Cell Like School? Chart

Instructions

Complete the following chart using the information from the reading selection.

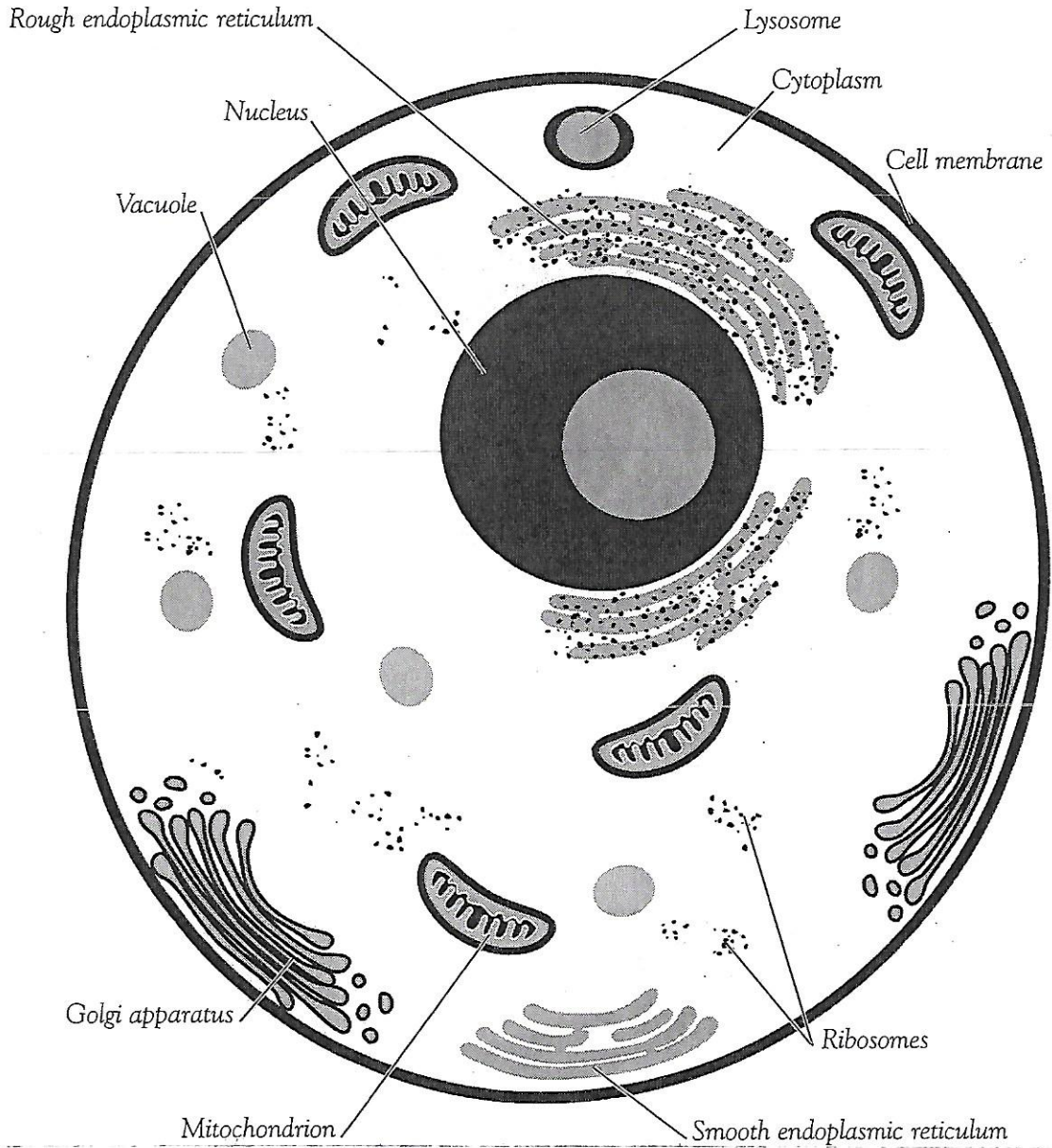
Cell Part or Organelle	In Plant Cells, Animal Cells, or Both?	Job (Function)
 Cell membrane	both plant and animal cells	thin, flexible barrier that surrounds the cell and protects it from the external environment
 Cell wall	plant cells only	rigid, boxlike cell covering that provides structure to plant cells
 Nucleus	both plant and animal cells	controls and directs the activities of the cell; contains DNA
 DNA	both plant and animal cells	genetic material that contains the coded instructions for controlling the functions of an organism

Cell Part or Organelle	In Plant Cells, Animal Cells, or Both?	Job (Function)
 <p data-bbox="315 510 693 541">Rough endoplasmic reticulum</p>	<p data-bbox="745 401 1047 432"><i>both plant and animal cells</i></p>	<p data-bbox="1078 380 1490 457"><i>serves as a passageway for molecules to travel inside the cell; rough ER is covered with ribosomes</i></p>
 <p data-bbox="310 764 699 795">Smooth endoplasmic reticulum</p>	<p data-bbox="745 659 1047 690"><i>both plant and animal cells</i></p>	<p data-bbox="1084 632 1500 730"><i>serves as a passageway for molecules to travel inside the cell; smooth ER lacks ribosomes</i></p>
 <p data-bbox="435 1020 570 1052">Ribosomes</p>	<p data-bbox="745 917 1047 949"><i>both plant and animal cells</i></p>	<p data-bbox="1089 917 1479 949"><i>organelles where proteins are made</i></p>
 <p data-bbox="410 1276 599 1308">Mitochondrion</p>	<p data-bbox="745 1171 1047 1203"><i>both plant and animal cells</i></p>	<p data-bbox="1089 1157 1463 1220"><i>produces power for the cell, turns sugar into energy</i></p>
 <p data-bbox="407 1535 602 1566">Golgi apparatus</p>	<p data-bbox="745 1430 1047 1461"><i>both plant and animal cells</i></p>	<p data-bbox="1089 1415 1503 1478"><i>packages molecules and protein to be sent out of the cell</i></p>

Cell Part or Organelle	In Plant Cells, Animal Cells, or Both?	Job (Function)
 <p data-bbox="256 531 394 562">Lysosomes</p>	<p data-bbox="570 422 867 453"><i>both plant and animal cells</i></p>	<p data-bbox="902 411 1305 468"><i>break down and recycle molecules in the cell</i></p>
 <p data-bbox="248 789 407 821">Chloroplasts</p>	<p data-bbox="634 684 802 716"><i>plant cells only</i></p>	<p data-bbox="902 669 1243 726"><i>location where green plant cells produce their own food</i></p>
 <p data-bbox="269 1045 383 1077">Vacuoles</p>	<p data-bbox="570 940 867 972"><i>both plant and animal cells</i></p>	<p data-bbox="902 926 1268 982"><i>storage place(s) in the cell; also, transports material out of the cell</i></p>
<p data-bbox="261 1192 391 1224">Cytoplasm</p>	<p data-bbox="570 1192 867 1224"><i>both plant and animal cells</i></p>	<p data-bbox="902 1161 1317 1255"><i>fluid substance in the cell; environment through which organelles move</i></p>

Animal Cell Diagram

Using the word bank below, label the different parts of the animal cell.



Plant Cell Diagram

