



TEKS 7.12D: Differentiate between structure and function in plant and animal cell organelles including cell membrane, cell wall, nucleus, cytoplasm, mitochondria, chloroplasts and vacuole

Cell Parts & Functions

Cells are made up of small organ-like structures called **organelles**. Each organelle has a specific **function** that helps the cell function as a whole. Plant and animal cells are **similar**, but they have different **structures** specific to their needs & functions.

Name of organelle	Function	Where found
nucleus 	-control center for cell activities -contains genetic information in chromosomes (DNA) that determine which traits are passed to offspring	plant & animal cells
cytoplasm 	-clear thick jelly-like fluid between the inside the cell membrane -contains & supports the organelles	plant & animal cells
mitochondria 	-provides energy for the cell -“power house” of the cell -site of cellular respiration which releases energy by breaking the chemical bonds of food	plant & animal cells
vacuole 	-stores water , wastes & other materials -helps provide shape & structure in plant cells -larger in plant cells since they may have to go for long periods without rain	plant & animal cells
cell membrane 	-controls what moves in & out of the cell (takes in food/ gases & removes wastes) -outermost layer of an animal cell -inside the cell wall of plant cells	plant & animal cells
cell wall 	-rigid, outermost layer of the plant cell - shapes , protects & supports the cell	* plant cells only
chloroplast 	-contains chlorophyll , a green pigment, that traps sunlight -site of photosynthesis	* plant cells only

Cell Parts And Their Jobs Study Guide

William Evans Lawrence

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