

PLANT AND ANIMAL CELL PARTS

CELL PART	FUNCTION(S)	LOCATION	CHARACTER
cell membrane	Determines what goes in and out of cell Gives shape to cell	Surrounds the cell	
cytoplasm	Holds cell parts in place	Fills the cell	
nucleus	Controls cell's activities	Cytoplasm	
nuclear membrane	Determines what goes in and out of nucleus	Cytoplasm	
nucleolus	Makes ribosomes	Nucleus	
mitochondria	Releases energy	Cytoplasm	
ribosomes	Makes proteins	Cytoplasm	
vacuole (food)	Stores food	Cytoplasm	
vacuole (water)	Stores water	Cytoplasm	
Golgi complex	Packages and Processes materials	Cytoplasm	
Lysosome	Gets rid of wastes	Cytoplasm	
smooth endoplasmic reticulum	Transports materials around the cell	Cytoplasm	
rough endoplasmic reticulum	Transports materials around the cell Has ribosomes attached	Cytoplasm	
chromosomes	Contains heredity and the DNA code	Nucleus	
centrioles (animals only)	Helps in cell reproduction	Cytoplasm	
chloroplasts (plants only)	Traps solar energy from sun & converts it to chemical energy for photosynthesis	Cytoplasm	
cell wall (plants only)	Protects and supports the plant cell	Surrounds the cell outside of the cell membrane	