

THE CELL

Study Chart

Cell Organelle Site

Animal	Plant/Animal	Job / Function	Organella	Plant/Animal
		or both		
		Plants, Deuterostomes, Plants, Prokaryotes; protects and		NOT ANIMAL
		withstands the shape of the cell and serves as a protective		Cell Wall
		barrier.		
		In plants, wall is made of cellulose. In bacteria cell walls are made of		
		peptidoglycan.		
		Plants, NOT		
		uses light to form glucose molecules from CO ₂ and water from H ₂ O. Glucose is an energy STORAGE molecule.		Chloroplast
		ANIMALS		
		All Eukaryotes		
		Protective container for the cell's DNA. DNA never leaves the nucleus, but messages (mRNA) can be sent to other parts of the cell.		Nucleus
		ALL CELLS		
		Smallest organelle found in all cells. Builds proteins by putting		Ribosomes
		together long chains of Amino Acids according to the mRNA message (a copy of a piece of DNA). They're everywhere, thousands in each cell.		
		All Eukaryotes		
		powerhouse of the cell. Converts glucose into ATP, an energy molecule every reaction the cell does.		Mitochondria