

Cell structures and Functions: Fill in the empty boxes below.

What is this structure called?	Is it found in prokaryotes and/or eukaryotes? If euk: animals &/or plants?	What are the main functions of this structure?	How would you describe this structure?
Cell membrane			Phospholipid bilayer and proteins
		Storage of inherited material	Organelle enclosed by membrane with pores
Chromosomes			
Endoplasmic reticulum	Eukaryotes	Synthesis and chemical modification of proteins for export and membrane	
		Packaging, storing, sorting & shipping cellular materials	Stacked membranous sacs
Lysosomes			Membranous sacs with digestive enzymes
Cell wall			
Vacuoles/vesicles			Membranous sacs
	Eukaryotes	Energy production for cell activities	
Chloroplasts			Membranous organelle with chlorophyll pigment
	Eukaryotes & Prokaryotes	Site of protein synthesis	Non-membranous, made of RNA and protein
Cilia and flagella	Eukaryotes & prokaryotes		Microtubule bundles in eukaryotes; different in prokaryotes