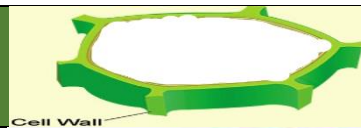

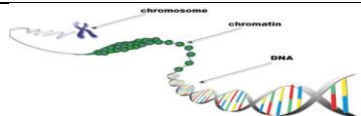

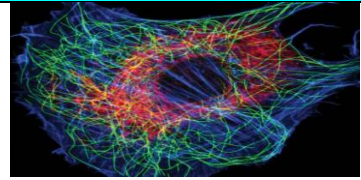
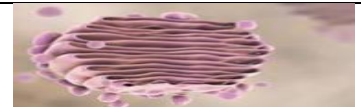
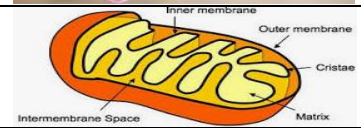
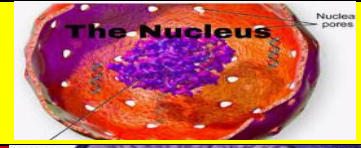

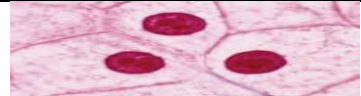
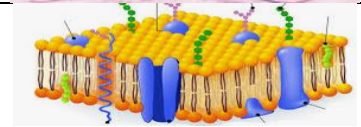
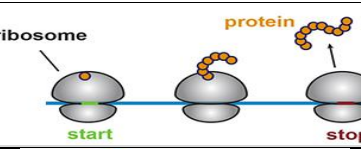

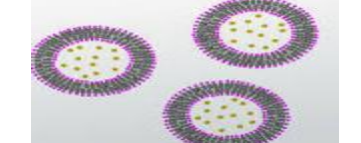


Cell Organelle Notes

Structure	Color	Location?	Function	Picture
Cell Wall #fortress	Green	Prokaryotic & Plant Cells	provide strength & protect cell from drying out and physical abuse.	
Chloroplast #rayofsunshine	Light Green	Plant Cells	Photosynthesis: Captures energy from sunlight & stores it in the form of simple sugars (-ose)	
Chromatin #compactman	Black inside nucleus	Eukaryotic Cells	Packaging long DNA molecules into more compact/dense structures.	
Cytoplasm #ooze	Lt Blue	Prokaryotic Cells Eukaryotic Cells	semifluid substance of a cell that is between nuclear & cell membrane.	
Cytoskeleton #infrastructure	Brown	Eukaryotic Cells	Maintain shape and organization/order. A network of microtubules & filaments that extend from nucleus to cell membrane.	
Golgi Apparatus #specialdelivery	Pink	Eukaryotic Cells	Packages proteins into vesicles for transport.	
Mitochondria #redbull	Purple	Eukaryotic Cells	Creates Chemical Energy in form of ATP. Has its own DNA (mDNA), inherited from Mother!	
Nuclear Membrane #mailman	Yellow	Eukaryotic Cells	Separates Chromosomes from the rest of the cell. Pores allow passage of certain things in and out.	
Nucleolus #Architect	Red	Eukaryotic Cells	Inside the Nucleus, this is where ribosomes are made (ribosome biogenesis) [rDNA]	
Nucleus #headquarters	Lt. Red	Eukaryotic Cells	Houses the genetic material and nucleolus of a cell.	
Plasma Membrane #gatekeeper	Orange	Prokaryotic & Eukaryotic Cells	Semipermeable membrane that encloses the cytoplasm. Phospholipid bilayer	
Ribosome #protienfactory	Black dots	Prokaryotic Cells	Use the blueprints from the DNA to put together Amino Acids into polypeptides. Ribosomes Make Proteins.	
Rough ER #gainsallday	Blue w/ dots	Eukaryotic Cells	Protein Synthesis for the cell.	
Smooth ER #roidrage	Dark Blue	Eukaryotic Cells	Synthesis of lipids (steroid hormones & phospholipids)	
Vacuole #amazonprime		Eukaryotic Cells Maybe in some bacteria (prokaryotes)	Vesicles and vacuoles are membrane-bound sacs that function in storage and transport	

Cell Organelle Notes

