

Cell Part

Chloroplast

Structure

similar to mito, highly structured "factory" folded membrane. Has light collecting parts (discs)

Function

converts solar energy to sugar

Found in

plants

Vesicle

small membrane bound sacs

both

transports materials

Lysosome

flexible membrane bound sac that contain enzymes

both

enough to break down molecules w/in the cell

Vacuole

membrane-bound sac containing water + enzymes

Both

helps regulate homeostats by releasing & absorbing molecules necessary molecules

in bigger plants

<u>Cell Part</u>	<u>Structure</u>	<u>Function</u>	<u>found in</u> <u>Animal/Plant</u>
Cytoplasm	jelly-like fluid that fills the cell	to hold & carry all molecules necessary for building/maintaining cellular structures	Both
Nucleus	circular membrane, pores	protects DNA, allows certain molecules in/out (RNA) to "read" DNA code	Both
Ribosome	small, abundant floating in cytoplasm	to build proteins from molecules (amino acids) carried in the cytoplasm.	Both
Mitochondria	highly folded membranes, bean shaped, highly structured internal "factory"	converts sugar to ATP. membranes increase surface area for ATP production	Both
Cell Wall	highly structured matrix, several layers made of complex cellulose molecules	provides both protection & structure. Adds rigidity & strength to cells.	Plants
Cell membrane	flexible, fluid double layer of lipids (fats)	protects the cell, provides some structure allows things in/out	Both