

cell organelles

Cell Part	Function
Cell wall	protects a supports plant cell
Cell membrane	cell gatekeeper!
Nucleus	"Brain" Control center
Nuclear membrane (envelope)	surrounds nucleus / protects
Chromosomes (chromatin)	DNA... instructions
Nucleolus	makes ribosomes
Cytoplasm	Cell GOO... holds organelles
Mitochondria	Powerhouse: Energy Energy Energy
Endoplasmic reticulum	ER = transport (hallways)
Ribosomes	protein factory machines
Golgi bodies (apparatus)	packaging
Chloroplast	GREEN photosynthesis occurs HERE
Vacuole or vesicle	storage
Lysosome	garbage/break down/recycling

A CELL FACTORY:

looking inside cells 

DNA in the **nucleus** tells the cell what to make.

Chromosomes (chromatin) are the "blueprints" or instructions to follow.

Ribosomes (located on the ER) read the instructions and make proteins.

Proteins are sent into the **endoplasmic reticulum** and moved to the **golgi bodies** for packaging and shipping.

The **mitochondrion** gives the energy to "run" the cell from food stored in **vacuoles**.

Wastes are kept in the **lysosomes** with dangerous enzymes.

The **cell membrane** directs traffic (water, food and other materials) in and out of the cell.