

Cells and Cell Organelles

Organelle	Picture	Function
Cytoplasm		<ul style="list-style-type: none">• All organelles are suspended in this _____ liquid and many chemical reactions of the cell take place here.
Cell Membrane		<ul style="list-style-type: none">• A cell membrane surrounds all cells and forms the _____ of the cell.• It is flexible and contains 2 layers.• The membrane allows only _____ substances to pass through such as food, water, oxygen and waste.
Nucleus		<ul style="list-style-type: none">• The nucleus is a large sphere found inside cells and it contains _____ information that controls all cell activities.• The coded instructions for the cell are found within _____ (deoxyribonucleic acid) which is in the form of chromosomes, located inside the nucleus.
Mitochondria		<ul style="list-style-type: none">• Most cells contain many mitochondria.• They are something like tiny “_____” since their job is to provide energy through cell respiration.
Endoplasmic Reticulum		<ul style="list-style-type: none">• This cell organelle consists of a system of _____ membrane tubes and pockets that may extend from the nucleus to the cell membrane.• It's job is to _____ materials such as proteins throughout the cell.

Organelle	Picture	Function
Ribosomes		<ul style="list-style-type: none">• These tiny organelles act as _____ in order to produce the many necessary proteins making up living things.• They can be attached to the _____ or just _____ freely in the cytoplasm.
Golgi Bodies		<ul style="list-style-type: none">• These are _____ membrane sacs which collect and _____ materials to be removed from the cell.• One of these materials is mucus which is then secreted out of the cell in order to line the intestines and airways.
Vacuole		<ul style="list-style-type: none">• A cell vacuole is a single membrane sac which encloses a _____.• Depending on the cell, the vacuole can have various functions such as:<ul style="list-style-type: none">• 1) _____, water or other materials• 2) the _____ of substances from the cell.

Organelles only on Animal Cells

Organelle	Picture	Function
Lysosomes		<ul style="list-style-type: none">• These are vacuoles filled with digestive _____ which can be released to break down food or recycle substances.

Organelles only in Plant Cells

Organelle	Picture	Function
Cell Wall		<ul style="list-style-type: none">• Plant cells have a _____ outer wall outside the cell membrane to provide _____ and support.
Chloroplast		<ul style="list-style-type: none">• These organelles are used to carry out _____.• They contain the green pigment _____ which captures sunlight energy and uses it to turn carbon dioxide and water into food.

Organelles found only in some cells

Organelle	Picture	Function
Flagellum		<ul style="list-style-type: none">• A flagellum is a _____ whip that rotates in order to help a cell move from place to place.
Cilia		<ul style="list-style-type: none">• Cilia consist of many _____ structures which help to move a cell or move things past a cell.