

Cell Organelles

- All cells must carry out various cellular _____ in order to live.
- Some of these activities include: obtaining and using _____, storing and transporting _____ and _____.
- In eukaryotic cells, these jobs are carried out by _____ cell parts called organelles, which work together to keep the cell healthy

a) _____

- All organelles are suspended in this _____ liquid and many chemical reactions of the cell take place here.

b) _____

- 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.

c) _____

- 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.

d) _____

- Most cells contain many mitochondria.
- They are something like tiny “_____” since their job is to provide energy through cell respiration.

e) _____

- 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.

f) _____

- 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.

g) _____

- 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.

h) _____

- A cell vacuole is a single membrane sac which encloses a _____.

- Depending on the cell, the vacuole can have various functions such as:
 - 1) _____, water or other materials
 - 2) the _____ of substances from the cell.

Organelles only on Animal Cells

i) _____

- These are vacuoles filled with digestive _____ which can be released to break down food or recycle substances.

j) _____

- Star-shaped structures which help in _____.

Organelles only in Plant Cells

k) _____

- Plant cells have a _____ outer wall outside the cell membrane to provide _____ and support.

l) _____

- In plant cells this structure fills with _____ and pushes against the cell wall to provide _____.

m) _____

- 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

n) _____

- A flagellum is a _____ whip that rotates in order to help a cell move from place to place.

o) _____

- Cilia consist of many _____ structures which help to move a cell or move things past a cell.