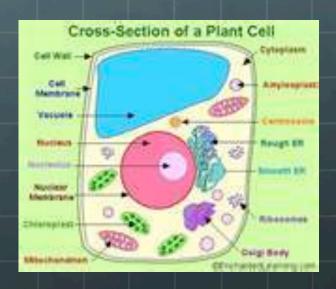


... a Restaurant?

Yes... we are going to compare the activity in a cell to the operation of a restaurant.



Here we go!



CELL MEMBRANE BOTH – Plant & Animal

Cell:

Protective layer that surrounds the cell

Restaurant:

Walls that keep everything inside



CELL WALL Plant Cell Only

Cell:

Extra strong outer layer to protect cell

Restaurant:

Bricks on the outside of the building



NUCLEUS BOTH – Plant & Animal

Cell:

Directs all activity and contains DNA (hereditary material)

Restaurant:

Manager, who is in charge of everything



CYTOPLASM BOTH – Plant & Animal

Cell:

Gel-like substance that fills the cell

Restaurant:

The air and the floor upon which everything sits



MITOCHONDRION BOTH – Plant & Animal

Cell:

Releases energy for the cell to use as needed



Restaurant:

Electric company that supplies power



RIBOSOME BOTH – Plant & Animal

Cell:

Make proteins for the cell to use in everyday functions

Restaurant:

Company that sells ingredients for use in cooking



ENDOPLASMIC RETICULUM BOTH – Plant & Animal

Cell:

Transports proteins around the cell

Restaurant:

Waiters who deliver food to customers

GOLGI COMPLEX BOTH – Plant & Animal

Cell:

Transports items as needed & takes items to membrane for exit

Restaurant:

Waiters &
Busboys who
straighten up and
move things
around

LYSOSOME BOTH – Plant & Animal

Cell:

Breaks down and recycles waste materials

Restaurant:

Garbage disposal and recycling containers



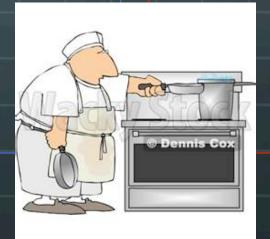
CHLOROPLAST Plant Cell Only

Cell:

Make food for the cell to use as energy

Restaurant:

Cooks who make the food for customers



VACUOLE

BOTH- Plant & Animal

Cell:

Temporary storage for water, food, waste, etc. **Restaurant:**

Refrigerators and shelves that store food & other products

