

Life science study guide

Please know the following:

Basic characteristics of Life:

- It reproduces/grows
- It metabolizes - takes nutrients from its environment for energy and raw materials.
- It respirates - exchanges gases with its environment
- It has complex organization - cell(s)

Osmosis

Facilitated transport

Active transport (and when it is necessary - lower to higher concentration)

Reactants and products of photosynthesis

Reactants and products of respiration.

Please be able to identify from a diagram, and give the function of the following organelles:

cell membrane

nucleus/nuclear membrane

nucleolus

mitochondria

ribosome

rough endoplasmic reticulum

smooth endoplasmic reticulum

Golgi apparatus

lysosome

vacuole

centriole

Please be able to identify the stages of mitosis from diagrams, and write a well organized, descriptive essay about the process of mitosis.