



PROCESS



QUESTION	What are the 3 main components of a cell?
ANSWER	1. Plasma membrane 2. Cytoplasm 3. Nucleus
QUESTION	What is the function of the plasma membrane?
ANSWER	1. To separate the cell from its environment 2. To control the movement of substances in and out of the cell
QUESTION	What is the function of the cytoplasm?
ANSWER	1. To provide a medium for chemical reactions 2. To provide a site for organelles
QUESTION	What is the function of the nucleus?
ANSWER	1. To store genetic material 2. To control the cell's activities
QUESTION	What is the difference between a prokaryotic cell and a eukaryotic cell?
ANSWER	1. Prokaryotic cells lack a nucleus and other membrane-bound organelles. 2. Eukaryotic cells have a nucleus and other membrane-bound organelles.
QUESTION	What is the function of the rough endoplasmic reticulum?
ANSWER	1. To synthesize proteins 2. To transport proteins
QUESTION	What is the function of the smooth endoplasmic reticulum?
ANSWER	1. To synthesize lipids 2. To detoxify drugs and poisons
QUESTION	What is the function of the Golgi apparatus?
ANSWER	1. To modify, sort, and transport proteins 2. To synthesize lipids
QUESTION	What is the function of the lysosome?
ANSWER	1. To break down waste materials and cellular debris 2. To release the building blocks for recycling
QUESTION	What is the function of the peroxisome?
ANSWER	1. To break down fatty acids and detoxify drugs and poisons 2. To synthesize lipids
QUESTION	What is the function of the mitochondrion?
ANSWER	1. To produce energy for the cell 2. To synthesize proteins
QUESTION	What is the function of the chloroplast?
ANSWER	1. To capture light energy and convert it into chemical energy 2. To synthesize glucose
QUESTION	What is the function of the central vacuole?
ANSWER	1. To store water and nutrients 2. To maintain turgor pressure
QUESTION	What is the function of the cell wall?
ANSWER	1. To provide structural support and protection 2. To regulate the movement of water and solutes
QUESTION	What is the function of the cell membrane?
ANSWER	1. To separate the cell from its environment 2. To control the movement of substances in and out of the cell
QUESTION	What is the function of the nuclear envelope?
ANSWER	1. To separate the nucleus from the cytoplasm 2. To control the movement of substances in and out of the nucleus
QUESTION	What is the function of the nuclear pore?
ANSWER	1. To allow the passage of small molecules and ions 2. To regulate the movement of large molecules and proteins
QUESTION	What is the function of the nucleolus?
ANSWER	1. To synthesize ribosomes 2. To store nuclear DNA
QUESTION	What is the function of the ribosome?
ANSWER	1. To synthesize proteins 2. To break down waste materials and cellular debris
QUESTION	What is the function of the endosome?
ANSWER	1. To store and transport materials 2. To break down waste materials and cellular debris
QUESTION	What is the function of the lysosome?
ANSWER	1. To break down waste materials and cellular debris 2. To release the building blocks for recycling
QUESTION	What is the function of the peroxisome?
ANSWER	1. To break down fatty acids and detoxify drugs and poisons 2. To synthesize lipids



EQUIPMENT



COMMUNICATION



PACKING

