Term	Definition
Tissue	The mass of like cells in an animal or plant body, esp. as they form a
	specific organ.
Organ	In a plant or animal, a specialized structure that performs a particular
	function, such as the heart.
Organelle	A specialized subunit within a cell that has a specific function, and is usually
	separately enclosed within its own membrane.
Cell membrane	The thin layer of protein and fat that surrounds the cell. The cell membrane
(plasma membrane)	is semipermeable, allowing some substances to pass into the cell and
	blocking others.
Cytoplasm	The jellylike material outside the cell nucleus in which the organelles are
	located.
Mitochondrion	Spherical to rod-shaped organelles with a double membrane. The inner
	membrane is infolded many times, forming a series of projections (called
	cristae). The mitochondrion converts the energy stored in glucose into ATP
	(adenosine triphosphate) for the cell.
Golgi body (Golgi	A flattened, layered, sac-like organelle that looks like a stack of pancakes and is located near the nucleus. It produces the membranes that surround
apparatus or Golgi complex)	the lysosomes. The Golgi body packages proteins and carbohydrates into
	membrane-bound vesicles for "export" from the cell.
Lysosome (cell	Spherical organelles surrounded by a membrane; they contain digestive
vesicles)	enzymes. This is where the digestion of cell nutrients takes place.
Nuclear membrane	The membrane that surrounds the nucleus.
Nucleus	Spherical body containing many organelles, including the nucleolus. The
	nucleus controls many of the functions of the cell (by controlling protein
	synthesis) and contains DNA (in chromosomes). The nucleus is surrounded
	by the nuclear membrane
Nucleolus	An organelle within the nucleus - it is where ribosomal RNA is produced.
	Some cells have more than one nucleolus.
Chromosome	One of the tiny, threadlike, DNA-containing bodies found in the cell nuclei
	of all plants and animals, responsible for transmitting hereditary
	characteristics.
Ribosome	Small organelles composed of RNA-rich cytoplasmic granules that are sites
	of protein synthesis.
Rough endoplasmic	A vast system of interconnected, membranous, infolded and convoluted
reticulum (rough ER)	sacks that are located in the cell's cytoplasm (the ER is continuous with the
	outer nuclear membrane). Rough ER is covered with ribosomes that give it
	a rough appearance. Rough ER transports materials through the cell and
	produces proteins in sacks called cisternae (which are sent to the Golgi
0 1 1 1	body, or inserted into the cell membrane).
Smooth endoplasmic	A vast system of interconnected, membranous, infolded and convoluted
reticulum (smooth ER)	tubes that are located in the cell's cytoplasm (the ER is continuous with the
	outer nuclear membrane). The space within the ER is called the ER lumen.
	Smooth ER transports materials through the cell. It contains enzymes and
	produces and digests lipids (fats) and membrane proteins; smooth ER buds
	off from rough ER, moving the newly-made proteins and lipids to the Golgi
	body, lysosomes, and membranes

Controsomo	A small body logated near the evaluation it has a dense contar and redicting
Centrosome	A small body located near the nucleus - it has a dense center and radiating
(microtubule	tubules. The centrosome is where microtubules are made. During cell
organizing center)	division (mitosis), the centrosome divides and the two parts move to
	opposite sides of the dividing cell. The centriole is the dense center of the
	centrosome (plant cells do not have centrioles).
Vacuole (animal)	Fluid-filled, membrane-surrounded cavities inside a cell. The vacuole fills
	with food being digested and waste material that is on its way out of the
	cell.
Vacuole (plant)	A large, membrane-bound space within a plant cell that is filled with fluid.
	Most plant cells have a single vacuole that takes up much of the cell. It
	helps maintain the shape of the cell.
Cell wall (plant)	A thick, rigid membrane that surrounds a plant cell. This layer of cellulose
	fiber gives the cell most of its support and structure. The cell wall also
	bonds with other cell walls to form the structure of the plant.
Chlorophyll (plant)	The green pigment in the leaves and stems of plants that is necessary for the
	production of plant food by photosynthesis.
Chloroplast (plant)	An elongated or disc-shaped organelle containing chlorophyll.
	Photosynthesis (in which energy from sunlight is converted into chemical
	energy - food) takes place in the chloroplasts.