

Cell Organelles Worksheet

Complete the following table by writing the name of the cell part or organelle in the right hand column that matches the structure/function in the left hand column. Cell parts **will not** be used more than once.

Structure/Function	Cell Organelle/Part
1. The sites of protein synthesis	
2. Transports materials within the cell	
3. The fluid-filled region inside the cell (except for the nucleus)	
4. Organelle that manages or controls all the cell functions in a eukaryotic cell	
5. Contains chlorophyll, a green pigment that traps energy from sunlight and gives plants their green color (photosynthesis)	
6. Digests excess or worn-out cell parts, food particles and invading viruses or bacteria	
7. Small bumps located on portions of the endoplasmic reticulum	
8. Provides temporary storage of food, enzymes and waste products	
9. Firm, protective structure that gives the cell its shape in plants, fungi, most bacteria and some protists	
10. Produces a usable form of energy for the cell (aerobic cell respiration)	
11. Packages proteins for transport out of the cell	
12. The membrane surrounding all cells	
13. Small hair-like structures used for movement or sensing things	
14. Longer whip-like structures used for movement	
15. System of protein filaments and microtubules that gives a cell its shape	
16. In animal cells only, organizing center for the cytoskeleton	

Put each of the following organelles into one of the four columns, based on their role in metabolism.

Lysosomes

Mitochondria

Plasma membrane

Vacuoles

Ingestion	Digestion	Respiration	Excretion

Put a check in the appropriate column(s) to indicate whether the following organelles are found in plant cells, animal cells or both.

Organelle	Plant Cells	Animal Cells
Cell Wall		
Vesicle		
Chloroplast		
Chromatin		
Cytoplasm		
Cytoskeleton		
Endoplasmic reticulum		
Golgi apparatus		

Organelle	Plant Cells	Animal Cells
Lysosome		
Mitochondria		
Nucleolus		
Nucleus		
Plasma membrane		
Central vacuole		
Ribosome		
Vacuole		

Put a check in the appropriate column(s) to indicate whether the following organelles or characteristics are found in prokaryotic cells, eukaryotic cells, or both.

Organelle or Characteristic	Prokaryote	Eukaryote
Nucleus		
Cell membrane		
Eubacteria		
Archaeobacteria		
Animal		

Organelle or Characteristic	Prokaryote	Eukaryote
Plant		
Fungi		
Protist		
Ribosome		
Mitochondria		

Organelle or Characteristic	Prokaryote	Eukaryote
Metabolism		
DNA		