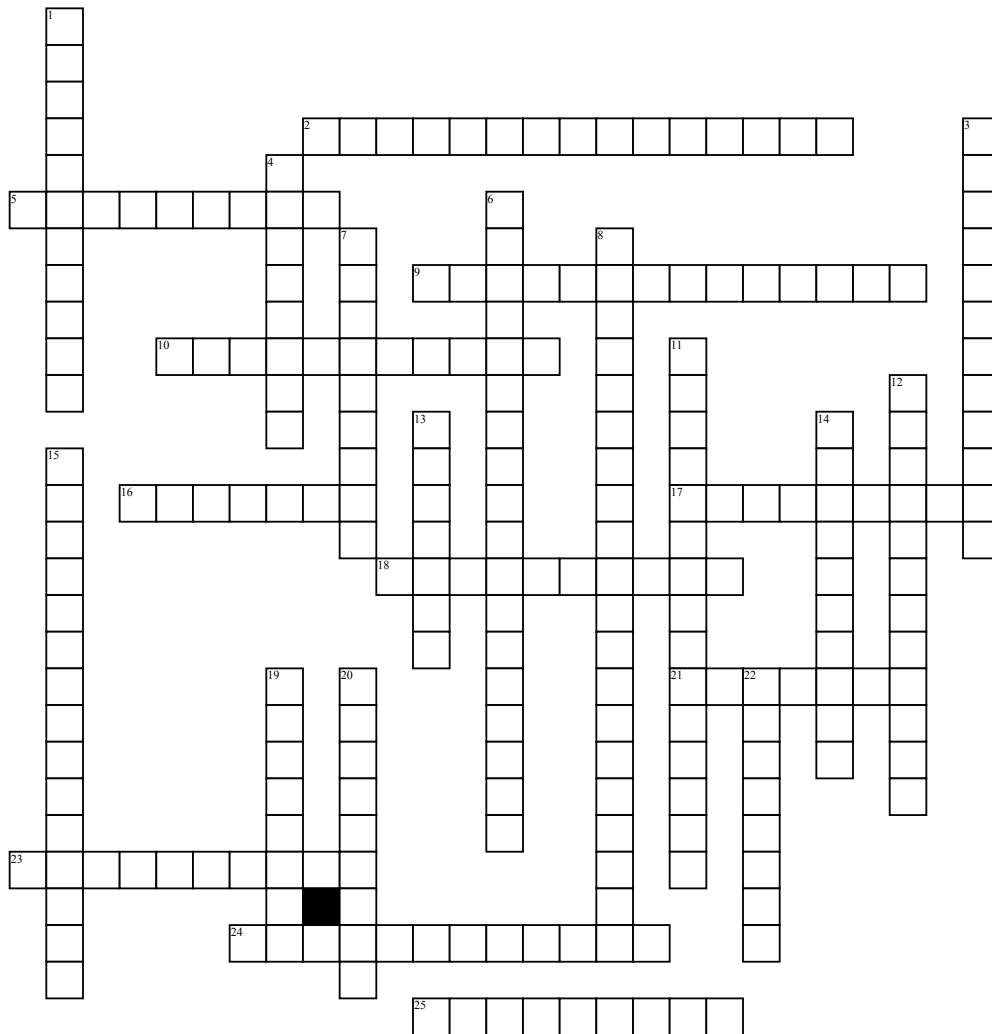


# Cell Structure And Functions



## Across

2. energy-requiring process that moves material across a cell membrane against a concentration difference  
 5. when comparing two solutions, the solution with the lesser concentration of solutes  
 9. Golgi apparatus, stack of membranes in the cell that modifies, sorts, and packages proteins from the endoplasmic reticulum  
 10. organelle found in cells of plants and some other organisms that captures the energy from sunlight and converts it into chemical energy  
 16. diffusion of water through a selectively permeable membrane  
 17. organism whose cells contain nuclei  
 18. Idea that all living things are composed of cells, cells are the basic units of structure and function in living things, and new cells are produced from existing cells  
 21. cell organelle that stores materials such as water, salts, proteins, and carbohydrates  
 23. unicellular organism lacking a nucleus

24. Plant – inside cell wall Animal – outer layer; cholesterol Double layer of phospholipids with proteins Selectively permeable

25. one of two tiny structures located in the cytoplasm of animal cells near the nuclear envelope

## Down

1. process by which a cell takes material into the cell by infolding of the cell membrane  
 3. double-layered sheet that forms the core of nearly all cell membranes  
 4. a small particle in the cell on which proteins are assembled; made of RNA and protein endoplasmic reticulum, internal membrane system in cells in which lipid components of the cell membrane are assembled and some proteins are modified  
 6. the process in which cells develop in different ways to perform different tasks organ. group of tissues that work together to perform closely related functions  
 7. material inside the cell membrane—not including the nucleus

8. movement of specific molecules across cell membranes through protein channels

11. layer of two membranes that surrounds the nucleus of a cell

12. network of protein filaments within some cells that helps the cell maintain its shape and is involved in many forms of cell movement

13. Large, oval May contain 1 or more nucleoli Holds DNA

14. threadlike structure within the nucleus containing the genetic information that is passed from one generation of cells to the next

15. Surrounds nucleus Double membrane Selectively permeable

19. cell organelle filled with enzymes needed to break down certain materials in the cell

20. specialized structure that performs important cellular functions within a eukaryotic cell

22. Outer layer Rigid & strong Made of cellulose

## Word Bank

cytoskeleton	eukaryote	hypotonic	vacuole	cell specialization
prokaryote	Golgi apparatus	Chromosome	Cell Wall	centriole
endocytosis	osmosis	ribosome	cytoplasm	facilitated diffusion
nuclear envelope	Nuclear membrane	Nucleus	active transport	organelle
lysosome	lipid bilayer	Cell Membrane	chloroplast	Cell theory