

## Cells Study Sheet 2

1. organelles                      Tiny structures within a cell that perform specific functions.
2. cell wall                        A rigid layer that surrounds plant cells and provides support.
3. cell membrane                The boundary that separates the cell from its environment.
4. nucleus                         The control center of the cell that directs all activities.
5. cytoplasm                      The jelly-like region between the cell membrane and the nucleus.
6. mitochondria                 Known as the powerhouses of the cell, producing energy.
7. endoplasmic reticulum    A network of passageways that transports materials within the cell.
8. ribosomes                      Small structures that produce proteins.
9. golgi bodies                 Organelles that package and distribute proteins.
10. chloroplasts                Structures in plant cells that capture energy from sunlight to produce food.
11. vacuoles                      Storage areas within a cell.
12. lysosomes                     Organelles that break down waste materials and debris.
13. prokaryote                  A single-celled organism without a nucleus.
14. eukaryote                    A multicellular organism with cells that contain a nucleus.
15. DNA                          The genetic material that provides instructions for all cell processes.
16. plant cells                  Cells that contain a cell wall, chloroplasts, and large vacuoles.
17. animal cells                Cells that lack a cell wall and chloroplasts but have smaller vacuoles.
18. photosynthesis            The process by which chloroplasts convert sunlight into food.
19. enzymes                     Proteins found in lysosomes that break down waste materials.
20. genetic material            DNA, which contains the instructions for cell processes.
21. cell division                The process by which a cell splits into two new cells.
22. bacteria                     Examples of prokaryotic organisms.
23. fungi                         Examples of eukaryotic organisms.
24. proteins                     Essential molecules produced by ribosomes for cell activities and growth.