

## Life Science SOL Review Packet

1. Advances in technology and scientific methods led the development of the cell theory.
2. The Cell Theory states:
  - All organisms are made up of one or more cells;
  - Cells are the basic units of structure and function in all organisms.
  - All cells come from cells that already exist.
3. In 1838, Matthias Schleiden, a German scientist, used a microscope to study plant parts and concluded that all plants were made of cells.
4. In 1839, another German scientist, Theodor Schwann, concluded that all animals were made up of cells.
5. In 1854, a German doctor, Rudolph Virchow, hypothesized that new cells form already existing cells.
6. Cells are classified into two types, Prokaryotic and Eukaryotic.
  - Prokaryotic cells have no membrane around their nuclear material. (i.e., bacteria cells)
  - Eukaryotic cell has a nucleus with a membrane around it.
7. All cells have organelles that perform specific functions. These organelles can be observed with a light microscope.
8. The cell membrane forms the outer boundary of the cell and allow only certain materials into and out of the cell.
9. The nucleus is the largest organelle in the cytoplasm of eukaryotic cells and manages the cell.
10. The cytoplasm is the gel-like material inside the cell membrane and outside the nucleus. It contains large amounts of water and many chemicals and holds the other structures that carry out the life processes in the cell.
11. The chromatin contains the genetic blueprints that control the operations of the cell in the form of long strands in the nucleus. It is made up of proteins and DNA (the chemical that controls the activities of the cell).
12. The nuclear membrane is an "envelope" that separates the nucleus from the cytoplasm.
13. The endoplasmic reticulum (ER) is a folded membrane that moves materials around in the cell. It extends from the nucleus to the cell membrane.
14. The ribosomes are where cells make their own proteins. Some ribosomes are scattered in the cytoplasm and some are attached to the ER.
15. The Golgi bodies are stacks of membrane-covered sacs that package and move proteins to the outside of the cell.
16. In the mitochondria food molecules are broken down and energy is released for the cell.
17. The vacuoles are fluid-filled storage areas in cells.
18. Cells in animals are different from plant cells.
19. Animal cells contain lysosomes that contain chemicals too digest wastes and worn-out cell parts as well as break down food.
20. Plant cells contain a cell wall that is a rigid structure outside the cell membrane that supports & protects a plant cell.
21. Plant cells make their own food in the chloroplasts. These organelles convert light energy into chemical energy (sugar) through the process of photosynthesis.
22. Normal cell reproduction (asexual) is called mitosis. This is a four-phase process where cells duplicate themselves, normal cell division.
23. The normal phase is interphase (before mitosis—like an introduction or in between time).

# Life Science Sol Review Packet

**LM Reder**



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