



SCIENCE



LIFE SCIENCE

Classes of Molecules Found in Cells

- **Lipids:** Long chains of carbon and hydrogen that generally don't like water

Oil and fats

- **Proteins:** Made up of *amino acids*, carry out most of the functions of the cell
- **Carbohydrates:** Also known as *sugars*, used for energy and storage, as well as for building structures around cells
- **Deoxyribonucleic acid:** Double-stranded hereditary molecules of all cells that twist into a *double helix* and is used to directly make RNA molecules in a process called *transcription*
- **RNA (ribonucleic acid):** Molecules are similar to DNA, but are single stranded and make proteins in a process called *translation*

These five substances are used to make up most of what goes into all living organisms.

We eat things such as lipids, proteins, and carbohydrates to use as raw materials to build our cells.

Cells

Cells are the basic unit of life.

Organelles are specialized structures in cells to carry out particular functions.

Prokaryotic Cells

- Lack nuclei and are generally simpler than eukaryotic cells
- **Bacteria** are typical prokaryotic cells.
- Have a single circular DNA molecule
- Have a **cell membrane** made up of two layers of lipids with **hydrophilic** (water loving) heads and **hydrophobic** (water fearing) tails
- Reproduce by **binary** where one cell separates into two cells. They do not need any other organisms to reproduce.
- Do not have any internal membranes to create separate spaces in the cell
- Have a **cell wall** made up of proteins and carbohydrates that protect the cell

Eukaryotic Cells

- Have nuclei and are often larger and more complex than prokaryotic cells
- Usually have multiple chromosomes that are more organized than DNA in prokaryotes
- Have membrane-bound organelles that create specialized environments, increasing efficiency
- Can form multicellular organisms where cells take on specialized functions
- May or may not have cell walls. Animal cells lack cell walls, but plants and yeast cells have them.
- May undergo **sexual reproduction**, which requires two different sexes to produce specialized reproductive cells

Prokaryotic & Eukaryotic Cell Structures

- **Cell walls:** Protective structures surrounding some organisms, made up of carbohydrates and proteins
 - **Chloroplasts:** Thin projections that help to move a cell or create currents around a cell
 - **Flagella:** Long, thin projections that spin and are used to move a cell
- **Basal bodies:** Protein structures that serve as a base for cilia and flagella to move
- **Cell membranes:** Lipid bilayers that form a barrier between the inside and outside of a cell
- **Ribosomes (RR):** Made up of proteins and RNA, used to make proteins, not membrane bound

Eukaryotic Cell Structures



- **Nucleolus (N):** A specialized region of the nucleus used to make ribosomes
- **Nucleolus (N):** Membrane-bound structures holding the DNA of a cell
- **Vesicles (V):** Membrane-bound organelles that can trap material inside of the membrane and either bring it into the cell (endocytosis) or release it from the cell (exocytosis)
- **Rough endoplasmic reticulum (RER):** Used to synthesize membrane proteins and vacuole proteins
- **Golgi complex (G):** Membrane-bound organelle used to sort proteins into their correct locations and add complex carbohydrates to cells
- **Cytoskeleton (C):** Internal protein structure that supports the cell and gives molecules tracks on which they can move within a cell
- **Smooth endoplasmic reticulum (SER) (ER):** Used to synthesize lipids
- **Mitochondria (M):** Membrane-bound structures used to make ATP, the main energy molecule of a cell, using membrane folds called **cristae**
- **Chloroplasts (C):** Membrane-bound storage organelles that are very large in plant cells
- **Centrioles (C):** Serve as a base structure to pull chromosomes apart during cell division
- **Chloroplasts:** Membrane-bound structures that convert light energy into chemical energy through photosynthesis using internal membrane folds called **thylakoids**
- **Peroxisomes:** Membrane-bound organelles that isolate reactions that require hydrogen peroxide, which if not restricted, could kill the cell
- **Lysosomes:** Membrane-bound organelles that isolate digestive reactions, which if not restricted, could damage or kill the cell

Viruses

- Use DNA or RNA as their genetic material
- Always have proteins on their surface that determine what type of cell they can infect
- Sometimes have a membrane around them to enclose the rest of the virus
- Always take over the machinery of the infected cell to make more virus particles
- May kill a cell quickly or infect a cell for a long time and make more viruses slowly
- Can often cause disease in humans
- Can infect all types of cells, from bacteria, to plants, to humans, depending on the virus

Cell Metabolism & Energy

- **ATP:** Main energy source of a cell
 - Animals break down sugars, particularly glucose, to make ATP
- **Aerobic metabolism:** Breakdown of carbohydrates, fat, or proteins in the presence of oxygen, more efficient
 - Formula: $C_6H_{12}O_6 + 6O_2 \rightarrow 6H_2O + 6CO_2$
- **Fermentation (anaerobic metabolism):** Breakdown of sugar in the absence of oxygen

- Fermentation used in making beer and bread results in the production of alcohol.

Human Body Systems

System	Organs Involved	Major Functions
Circulatory	Heart, blood vessels, and red blood cells	Transport nutrients and wastes
Digestive	Stomach, small intestine, and the gall bladder	Extract nutrients from food
Endocrine	Pituitary and adrenal glands	More control of body systems
Excretory	Kidneys, large intestine, and the bladder	Remove waste from the body
Immune	Spleen, thymus, and white blood cells	Protect from infection
Integumentary	Skin, hair, and nails	Provide outer protection from environment
Muscular	Muscles and smooth muscles	Provide voluntary and involuntary movement
Nervous	Brain, spinal cord, and nerves	Provide rapid control of body systems
Reproductive	Ovaries, testes, and uterus	Born children
Respiratory	Lungs and trachea	Bring oxygen in and expel carbon dioxide
Skeletal	Bones	Provide structural support and protection

Health Issues

- Diseases and viruses can live on many surfaces, including other people.
- Washing your hands is a good way to keep from picking up diseases.
- Cover your mouth when coughing or sneezing to reduce the spread of germs.
- Vaccines are the best way to prevent a virus from infecting a person.
- Antibiotics can kill most bacteria, but have no effect on viruses.
- Always take a full dose of antibiotics when prescribed by the doctor in order to kill all the bacteria.
- Cover cuts with antibiotic ointment and a clean bandage.
- Drugs
 - Overusing any drug, even one prescribed by a doctor, can lead to **addiction**.
 - Addiction is very hard to break—some people never can.
 - Moderation is the best way to use any drug, including alcohol or caffeine.
 - Always take prescribed drugs only as described by the doctor.
 - Illegal drugs are never as pure as legal ones, you don't know what is really in them!

Reproduction & Heredity

- **Genotype:** Reproductive cell containing half the genetic information (**haploid**)
 - Male: Sperm
 - Female: Egg
- Each human gamete contains 23 chromosomes made up of DNA and proteins.
- The chromosomes contain one copy of every gene that provides a blueprint to make a person.
- You have two copies of every gene—one from each parent (**diploid**).

Ged Social Science Study Guide

M Mark



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Table of Contents Ged Social Science Study Guide

1. Understanding the eBook Ged Social Science Study Guide
 - The Rise of Digital Reading Ged Social Science Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ged Social Science Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ged Social Science Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ged Social Science Study Guide
 - Personalized Recommendations
 - Ged Social Science Study Guide User Reviews and Ratings
 - Ged Social Science Study Guide and Bestseller Lists
5. Accessing Ged Social Science Study Guide Free and Paid eBooks
 - Ged Social Science Study Guide Public Domain eBooks
 - Ged Social Science Study Guide eBook Subscription Services
 - Ged Social Science Study Guide Budget-Friendly Options
6. Navigating Ged Social Science Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Ged Social Science Study Guide Compatibility with Devices
 - Ged Social Science Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ged Social Science Study Guide
 - Highlighting and Note-Taking Ged Social Science Study Guide
 - Interactive Elements Ged Social Science Study Guide
8. Staying Engaged with Ged Social Science Study Guide

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ged Social Science Study Guide
9. Balancing eBooks and Physical Books Ged Social Science Study Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ged Social Science Study Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ged Social Science Study Guide
- Setting Reading Goals Ged Social Science Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ged Social Science Study Guide
- Fact-Checking eBook Content of Ged Social Science Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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very bright having a single bead front sight and factory bluing that shows some light freckling spotting and very minor thinning on the muzzle the receiver frame shows some traces of case coloring and freckling with

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