

**CLASSIFICATION**

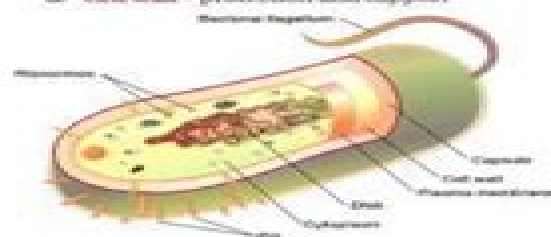
A. LEVELS OF TAXONOMIC CLASSIFICATION – (largest to smallest) Domain, Kingdom, Phylum, Class, Order, Family, Genus, Species.

B. TREE OF LIFE**CELL BIOLOGY****A. CELL THEORY**

1. All living things are made up of one or more cells.
2. The cell is the basic unit of structure and function.
3. All cells come from existing cells.

B. PROKARYOTIC CELL STRUCTURE

1. **Plasma membrane** – regulates what enters and leaves the cell
2. **Flagellum** – locomotion.
3. **Ribosomes** – sites of protein production (RNA) – protein synthesis.
4. **Pili** – used for attachment to other bacteria or to a host
5. **Plasmid** – small circle of DNA separate from main chromosome loop
6. **Cell wall** – protection and support

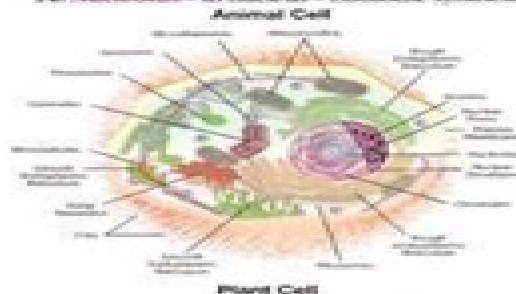
**C. EUKARYOTIC CELL STRUCTURE**

1. **Plasma membrane** – regulation of internal environment
2. **Mitochondria** – membrane-enclosed – energy-producing reactions
3. **Chloroplasts** – plants – photosynthesis
4. **Lysosomes** – storage for digestive enzymes
5. **Smooth Endoplasmic Reticulum (SER)** – protein and lipid synthesis
6. **Rough Endoplasmic Reticulum (RER)** – produces, modifies, and transports proteins – has ribosomes attached
7. **Ribosomes** – particles composed of ribonucleic acid (RNA) – protein synthesis
8. **Golgi apparatus** – stores, modifies, and packages secretory products
9. **Peroxisomes** – contain oxidative enzymes
10. **Vacuoles** – fluid-filled spaces – storage
11. **Cell wall** – plants – protection and support

12. **Centriole, centrosome** – animal cells – cell division

13. **Cilia, flagella** – locomotion and ingestion

14. **Nucleolus** – in nucleus – ribosome synthesis



- D. LIMITATIONS ON CELL SIZE** – As cell size increases, surface area-to-volume ratio increases. If the ratio becomes too high, the cell surface is not large enough to carry out its function. It cannot allow materials into or out of the cell quickly enough to support necessary life processes.

E. STRUCTURE OF THE CELL MEMBRANE**EXCHANGE BETWEEN CELL AND ENVIRONMENT**

- A. DIFFUSION** – movement of ions or molecules down a concentration gradient
- B. OSMOSIS** – movement of water molecules across a membrane down a concentration gradient
1. **Isotonic medium** – same solute concentration as cell
 2. **Hypertonic medium** – higher solute concentration than cell; cell loses H₂O (shrivels)
 3. **Hypotonic medium** – lower solute concentration than cell; cell gains H₂O (swells)
- C. ACTIVE TRANSPORT** – movement against a concentration gradient; requires energy input from cell

D. ENDOCYTOSIS – cell encloses material (includes phagocytosis of solid particles); a form of active transport

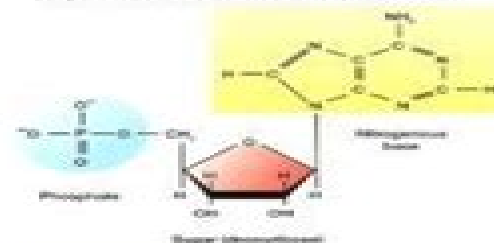
E. EXOCYTOSIS – cell discharges vacuole-enclosed material; a form of active transport

METABOLIC AND ENERGY-PRODUCING PATHWAYS

- A. ENZYME** – protein catalyst speeds reaction by lowering energy of activation
1. **Substrate** – molecule on which enzyme acts
 2. **Coenzyme** – binds briefly to enzymes; activates and assists enzymes
 3. **ATP** – adenosine triphosphate; energy stored in phosphate-phosphate bonds; energy released when bonds are hydrolyzed
 4. **NAD** – nicotinamide adenine dinucleotide; part of electron transport system
- B. PHOTOSYNTHESIS** – chloroplasts – $6CO_2 + 6H_2O + \text{light, chlorophyll} \rightarrow C_6H_{12}O_6 + 6O_2$
- C. CELLULAR RESPIRATION** – generates ATP
1. **Glycolysis** – initial stage of respiration – cytoplasm – anaerobic – activation of glucose (by ATP), with production of pyruvate (net gain of 2 ATP)
 2. **Krebs (citric acid) cycle** – second stage of respiration – mitochondria – aerobic – pyruvate breaks down with production of CO_2 , 2 ATP and many electron carriers
 3. **Electron (hydrogen) transport chain** – third stage of respiration – mitochondria – aerobic – hydrogen and electrons stripped from carriers with production of 32 ATP

DNA

- A. NUCLEOTIDES** – subunits of nucleic acids
1. **Phosphate**
 2. **Sugar** (deoxyribose in DNA, ribose in RNA)
 3. **Nitrogenous base** (four in DNA): Adenine (A), Thymine (T), Guanine (G), Cytosine (C)



Sugar (phosphorylated)

- B. STRUCTURE OF DNA**
1. **Sugar-phosphate groups** – sugar is deoxyribose
 2. **Nucleotides**
 3. **Double helix** – sugar-phosphate groups form backbone (sides of "ladder"); pairs of nucleotides form "rungs of ladder"; nucleotide pairs joined by hydrogen bonds; A always pairs with T; C always pairs with G

MOLECULAR GENETICS**A. DEFINITIONS**

1. **Gene** – a location on a chromosome; typically codes for one polypeptide
2. **Alleles** – different forms of a gene
3. **Chromosome** – structure made up of DNA and associated proteins
4. **Genotype** – genetic makeup of an organism
5. **Phenotype** – visible expression of genetic makeup

Stars Ninth Grade Biology Study Guide

AW Rasmussen



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Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K-12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course

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The Complete Home Learning Sourcebook Rebecca Rupp,1998 Lists all the resources needed to create a balanced curriculum for homeschooling from preschool to high school level

Uncommon Sense Alan Cromer,1995-08-24 Most people believe that science arose as a natural end product of our innate intelligence and curiosity as an inevitable stage in human intellectual development But physicist and educator Alan Cromer disputes this belief Cromer argues that science is not the natural unfolding of human potential but the invention of a particular culture Greece in a particular historical period Indeed far from being natural scientific thinking goes so far against the grain of conventional human thought that if it hadn t been discovered in Greece it might not have been discovered at all In *Uncommon Sense* Alan Cromer develops the argument that science represents a radically new and different way of thinking Using Piaget s stages of intellectual development he shows that conventional thinking remains mired in subjective egocentric ways of looking at the world most people even today still believe in astrology ESP UFOs ghosts and other paranormal phenomena a mode of thought that science has outgrown He provides a fascinating explanation of why science began in Greece contrasting the Greek practice of debate to the Judaic reliance on prophets for acquiring knowledge Other factors such as a maritime economy and wandering scholars both of which prevented parochialism and an essentially literary religion not dominated by priests also promoted in Greece an objective analytical way of thinking not found elsewhere in the ancient world He examines India and China and explains why science could not develop in either country In China for instance astronomy served only the state and the private study of astronomy was forbidden Cromer also provides a perceptive account of science in Renaissance Europe and of figures such as Copernicus Galileo and Newton Along the way Cromer touches on many intriguing topics arguing for instance that much of science is essential complete there are no new elements yet to be discovered He debunks the vaunted SETI Search for Extraterrestrial Intelligence project which costs taxpayers millions each year showing that physical limits such as the melting point of metal put an absolute limit on the speed of space travel making trips to even the nearest star all but impossible Finally Cromer discusses the deplorable state of science education in America and suggests several provocative innovations to improve high school education including a radical proposal to give all students an intensive eighth and ninth year program eliminating the last two years of high school *Uncommon Sense* is an illuminating look at science filled with provocative observations Whether challenging Thomas Kuhn s theory of scientific revolutions or extolling the virtues of Euclid s *Elements* Alan Cromer is always insightful outspoken and refreshingly original

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describing the origin history and current ways of our neighborhoods religion government science technology and business Written in plain language it explains what astronomy physics geology biology chemistry anthropology history religion social science and political science tell us about ourselves Most everyone feels that human success is measured in terms of healthy and happy children and communities Human thoughts and actions involve little besides love and children spouse and family community and justice because we are parenting mammals and social primates Each of us simply wants to laugh and joke with our family and friends pursue life raise children and strive to be a valued and contributing member of our community We have made incredible progress building civilization in just a few hundred generations using nothing except our animal minds Have you wondered What are the laws of nature and how many laws are there How did molecular life begin and then evolve into worms fish amphibians reptiles mammals primates and humans What are the differences between these animals How did we get from the Big Bang to bacteria and on to Christianity democracy and globalization What is life like for gatherer hunters When did we first become farmers and first build cities and what was life like at those times What was life like in Ancient Mesopotamia Ancient Athens 13th century Cahokia Medieval China and Europe 19th Century New England Yoruban villages and in the U S during the 1920s What was the Industrial Revolution and how has it changed our lives What are the Hindu Muslim Confucian Jewish Christian Buddhist and Humanist religions and world views How have our wages infant mortality rates lifespans crime rates and poverty and inequality rates varied through the ages What are the biggest economic and social secrets in the U S today What are some meaningful goals and priorities for our civilization and how can we measure the success of our attempts to reach those goals Includes questions index bibliography and 1 200 internet links taking you to images videos and discussed documents **Pamphlets on Biology** ,1889

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