

# STUDY CARD for CAMPBELL BIOLOGY, Ninth Edition

Reece • Urry • Cain • Wasserman • Minorsky • Jackson

## Themes in the Study of Life (Ch. 1)

1. The theme accounts for life's unity and diversity.
2. New perspectives emerge at each level of the biological hierarchy, from atoms to the biosphere.
3. Organisms interact with their environments.
4. Life requires energy transfer.
5. Structure and function are correlated.
6. The cell is the basic unit of an organism.
7. DNA encodes heritable information.
8. Feedback mechanisms regulate biological systems.

## The Chemical Context of Life (Ch. 2)

1. Matter consists of chemical elements or pure forms and is chemically defined compounds.
2. An element's properties depend upon the structure of its atoms.
  - a. The number of protons ( $Z$ ) defines the element.
  - b. Electrons ( $Z$ ) occupy electron shells.
3. Chemical bonds form when atoms interact and complete their outer electron shells.
  - a. Single or double covalent bonds form when pairs of electrons are shared between atoms.
  - b. Electrons transfer between atoms. An ionic bond is the attraction between oppositely charged ions.
  - c. Weak bonds include hydrogen bonds and van der Waals forces.
4. Chemical reactions occur and bond chemical bonds or reactants are converted to products.

## Water and Life (Ch. 3)

1. Water molecules are polar. Hydrogen bonding between water molecules gives water unique properties that allow life to exist on Earth.
  - a. Cohesion due to hydrogen bonding contributes to the transport of water against gravity in plants.
  - b. Water's high specific heat and high heat of vaporization moderate temperatures on Earth.
  - c. Ice floats because hydrogen bonds lock water into a crystalline lattice that reduces its density.



- a. Water is a versatile solvent.
  - b. Hydrophilic substances have an affinity for water whereas hydrophobic substances repel water.
2. Acids and bases contribute to pH regulation.
    - a. Acidic solutions have a pH  $< 7$ .
    - b. Basic solutions have a pH  $> 7$ .
    - c. Buffers minimize changes in pH.

## Carbon and Molecular Diversity (Ch. 4)

1. Organic chemistry is the study of carbon compounds. Carbon atoms can form diverse molecules by bonding with up to four other atoms.
  - a. Carbon chains form the skeletons of most organic molecules.
  - b. Hydrocarbons consist of only C and H.
  - c. Isomers have the same molecular formula but different structures and properties.
2. Functional groups are the parts of molecules involved in chemical reactions.

3. ATP is an important source of energy for cellular processes:  $ATP \rightarrow ADP + P_i + \text{Energy}$ .

## Large Biological Molecules (Ch. 5)

1. Macromolecules are polymers synthesized from monomers by dehydration reactions.
  - a. Polymers are distinguished by monomers, by the addition of a water molecule (hydrolysis).
  - b. Variation in the linear sequence of monomers results in the diversity of polymers.
  - c. Four major classes of large biological molecules are found in cells.
2. Carbohydrates include sugars, starch, and cellulose (and) and polymers of sugars (polysaccharides).
  - a. Most monosaccharides are multiples of  $CH_2O$ .
  - b. Starch (in plants) and glycogen (in animals) are polysaccharides that store energy.
  - c. Cellulose (in plants) and chitin (in animals) are polysaccharides that provide structural support.
3. Lipids are hydrophobic.
  - a. Triglycerides linked to three fatty acid chains can be saturated or unsaturated; they store energy.
  - b. Phospholipids, glycolipids, two fatty acids, and phosphate have hydrophobic and hydrophilic regions; they form a bilayer in water.
  - c. Steroids (a carbon skeleton with four fused rings) include cholesterol and sex hormones.
4. Proteins form diverse structures and functions.
  - a. A protein consists of one or more polypeptides, each a polymer of amino acids (from a set of 20).
  - b. A peptide bond joins the carboxyl group of one amino acid with the amino group of the next.

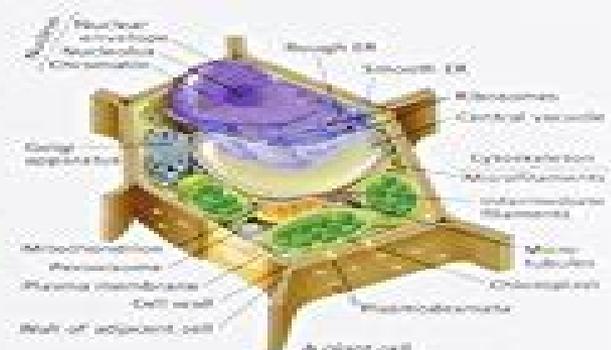
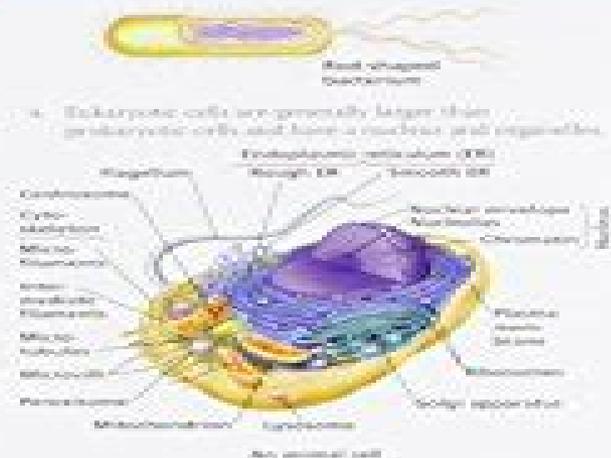
### Peptide Bond: H<sub>2</sub>O group



- a. Four levels of protein structure lead to the unique shape and function of each protein.
2. Nucleic acids store, transmit, and help express hereditary information.
    - a. DNA and RNA are polymers of nucleotides.
    - b. A nucleotide has a nitrogenous base, a five-carbon sugar, and one or more phosphate groups.
    - c. DNA has deoxyribose as its sugar; RNA has ribose.
    - d. DNA has A, G, C, and T as bases; RNA has A, G, C, and U.
    - e. DNA is a double helix; RNA varies in shape.
    - f. A gene (hereditary unit) is a stretch of DNA that dictates the synthesis of RNA, which then directs the amino acid sequence of a polypeptide.

## A Tour of the Cell (Ch. 6)

1. All organisms are composed of one or more cells.
2. All cells are bounded by a plasma membrane and contain cytosol, one or more chromosomes, and ribosomes.
3. Prokaryotic cells usually have a cell wall but lack a nucleus and membrane-bounded organelles.



1. Within the nucleus, chromosomes made up of a combination of DNA and proteins carry the genetic instructions for making polypeptides.
2. Ribosomes are the cellular organelles that carry out protein synthesis.
3. The endomembrane system is a network of membranes, including the endoplasmic reticulum (ER).
  - a. Smooth ER has enzymes to lipid synthesis, carbohydrate metabolism, and detoxification.
  - b. Rough ER has ribosomes that synthesize secretory proteins, which enter the ER lumen. Rough ER also synthesizes membrane proteins and glycoproteins.
  - c. The Golgi apparatus refines ER products and packages them in vesicles.
  - d. Cytosomes, such as lysosomes, hydrolytic enzymes, digest macromolecules and recycle organelles.
  - e. Vacuoles function in digestion, storage, waste disposal, water balance, and cell growth.
4. Mitochondria and chloroplasts change energy from one form to another.
  - a. Mitochondria, the sites of cellular respiration, extract energy from food and make ATP.

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web a letter of support for an immigration case or a letter of support for immigration court is used for deportation or to confirm an asylum for immigrants escaping persecution so if you have a family member or a friend who needs help with their immigration application then the best way to help them is by writing a letter of support for immigration

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web letter of support is a specific document issued by one of the canadian dbos which has been approved by the government of canada to assess business concepts from foreign entrepreneurs who wish to immigrate to canada under the start up visa program

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web in this article we will explore how to create a persuasive and effective letter of support for immigration that stands out letter of support for immigration templates in the following section we ve provided a few templates for letters of support for immigration

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web jul 30 2018 1 think about who you want to ask for letters of support the first thing you need to do before you even ask someone to write a letter of support is figure out who you are going to ask to write one the authors of these letters should be someone who knows you well because they will be writing about your life your personality and your character

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web a written and signed promise of your financial support for your parents or grandparents for their entire stay in canada and proof that your income meets or is above the low income cut off lico for the total number of people including the visiting parents or grandparents

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web mar 21 2019 give a sample to write a letter from a friend and family for sponsor my spouse click to expand write a letter thats he she attended your wedding and include much details as possible about venue number of people the reception also

how long the friend knows both of you and the relations anyinputs he did for the function

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web when writing a letter of support for immigration it s essential to highlight the immigrant s positive character traits this helps create a compelling case for their application and shows their potential value to the community

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web sep 16 2015 sep 14 2015 2 hey i am sponsoring my american husband to canada we have no kids i am unemployed and have been for over a year my mother and stepfather support me and want to support my husband this is the letter we did we made the point that they re employed full time and have many valuable assets a house

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web 1 about the document 2 steps to apply 3 who can apply 4 supporting documents 5 apply 6 after you apply supporting documents for a visitor visa applicant the documents you need to submit with your visa application depends on why you re traveling to canada documents to submit with your visa application and bring when you travel tourist

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web apr 3 2023 what is the proof of relationship support letter for spouse visa the proof of relationship support letter is a letter drafted by the couple s family member or close friend this letter is designed to provide additional evidence that the couple s relationship is genuine rather than simply a marriage of convenience for immigration purposes

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web to get a letter of support you need to convince a designated organization that your business idea is worth supporting to do that contact the designated organization you think may be interested in your start up business and find out how you can pitch your idea

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web aug 24 2012 here s an example of one of the notarized letters to citizenship and immigration canada i am writing in support of sponsor name and applicant name application for sponsorship and permanent residency i have known sponsor since february of 2005 we were co workers at from 2005 to 2010