

Science Grade 6 Unit 4: Worksheet Plan 4.2

Unit 4 _ The cell

Learning objective: Students will be able to use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.

Q1. Choose the correct option to fill in the exact location of the following parts.

- a. In a plant cell, the cell wall is found adjoining the _____. (**cell membrane** / cytoplasm)
- b. Chromatin is present in the _____. (**nucleoplasm**/ cytoplasm)
- c. The nucleus of a plant cell is _____ (**marginal** / central) in position.
- d. Centrosomes are present near the _____ (**nucleus**/ cell membrane) in an animal cell.

Q2. Write T for true and F for false. Correct the statements by changing the first or last word(s) only.

- a. Plant cells have different shapes. **False.**
Animal cells have different shapes.
- b. The colours imparted by chromoplasts promote pollination. **True**
- c. The cell membrane is freely permeable. **False**
The cell membrane is semipermeable.
- d. Centrosomes help in cell division. **True**

Q3. Name the following

- a. Controlling the centre of the cell. **Nucleus**
- b. Scientist who observed the first living cell . **Antonie van Leeuwenhoek**
- c. Responsible for transmission of characters. **Chromosomes**
- d. Provide colour to the fruits. **Chromoplasts**

Q4. Differentiate the following

- a. Cell wall and cell membrane

| Cell wall | Cell membrane |
|--|---|
| <ul style="list-style-type: none">1. It is present outside the cell membrane.2. It is freely permeable.3. Present only in plant cells. | <ul style="list-style-type: none">1. It is a thin outer membrane of cytoplasm inner to the cell wall.2. It is semi permeable.3. Present in both plant cells and animal cells. |

- b. Chromosome and centrosome

| Chromosome | Centrosome |
|---|--|
| Chromosomes are highly condensed coiled chromatin fibres that are present inside the nucleus. | Centrosome is an organelle in the cell that initiates and regulates cell division. |

- c. Lysosome and vacuole

Living By Chemistry Answer Key Unit 4

David Ucko



Living By Chemistry Answer Key Unit 4:

Student Guide For Living Chemistry Barbara Ucko, 2012-12-02 Student Guide for Living Chemistry is a 23 chapter textbook guide that allows students to study and review on their own and test their understanding to help them prepare for examinations Every chapter begins with a list of objectives stating exactly the skills to develop in a particular unit Each objective corresponds to a section in the textbook Living Chemistry Three kinds of questions are provided for each objective to check the student's understanding namely short answer Study Questions multiple choice and fill in The answers for all questions are provided at the end of the chapter The opening chapters cover the SI units composition of matter chemical bonding compounds chemical change gases respiration and water The subsequent chapters deal with solutions acids bases salts nuclear and organic chemistry oxygen derivatives and hydrocarbons polymers and other organic derivatives This textbook also explores the chemistry of carbohydrates lipids proteins enzymes and energy and carbohydrate metabolism The remaining chapters discuss the chemistry of vitamins hormones body fluid drugs and poisons Undergraduate chemistry students will find this book invaluable

Living Chemistry David Ucko, 2012-12-02 Living Chemistry is a 23 chapter textbook that provides a thorough systematic coverage of the chemical information related to health The opening chapters cover the basic concepts required for understanding the language and principles of chemistry These chapters also introduce the International System of units followed by the studies of carbon compounds based on functional groups The discussions then shift to the study of biologically important molecules such as the chemistry of carbohydrates lipids and proteins as well as the individual reaction steps for important complex metabolic pathways The remaining chapters explore the chemistry of vitamins hormones body fluids drugs and poisons Optional topics including a mathematics review scientific notation the unit factor and proportion methods metric conversion with practice problems atomic orbitals hybridization metabolic pathways and the cell are provided in the supplementary texts This book is of great value to undergraduate chemistry students

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Scientific American, 1917 *British Medical Journal*, 1916 *Association Medical Journal*, 1916 *Science*, 2001 *Biology* Sylvia S. Mader, 2000-07 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation

covers six years 1965 70 British Books in Print ,1985 **Books in Print** ,1982 *Forthcoming Books* Rose Army,1999
 Cumulative Index to Nursing Literature Cinahl Information Systems Staff,1999 The Software Encyclopedia 2001
,2001 **Index to Educational Overhead Transparencies** National Information Center for Educational Media,1980

Reviewing **Living By Chemistry Answer Key Unit 4**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Living By Chemistry Answer Key Unit 4**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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