

HONORS - VSEPR Theory - Molecular Geometry Reference Sheet

Unshared pair

Memorize

- In electron dot diagrams for covalent compounds, remember that there are two types of electron pairs: shared and unshared.

Electron Domains

- Shared pairs of electrons are **BONDS** and are shown as a connection between the two atoms bonding.
- Unshared pairs of electrons stay on the atom they originate from and are **NOT** bonded.

- Electron dot diagrams are 3-dimensional so remember that more than 2 electron domains require you to move forward or backwards in space with your drawing.

Names of types of chemical bonds used to draw 3D molecular structures:

"normal" bond

dashed bond

wedged bond

Orientations of chemical bonds indicated by these styles:

bond lies in the plane of the paper (or screen, when viewed electronically)

bond extends backwards, away from the viewer, so effectively "into" the paper (or screen)

bond protrudes forwards, towards the viewer, so effectively "out of" the paper (or screen)

*** Unshared pairs repel ~ 2-3° more than bonds**

*Central atom is usually the least electronegative element in the formula (except Hydrogen) and/or the element with the most open bond locations.

Name of Shape	Molecular Shape	# of Total Electron Domains	# of atoms bonded to central atom	Unshared pairs on central atom	Bond Angles	Example
Linear		2	1 or 2 	0	180°	CO ₂
Trigonal planar + Boron		3	3	0	120°	BF ₃
Bent (V-Shaped)		3	2	1	117°	SO ₂
		4	2	2	105°	H ₂ O
Tetrahedral * 3D		4	4	0	109.5°	CH ₄
Trigonal pyramidal * 3D		4	3	1	107°	NH ₃

Breaks Octet

Unit 6 Molecular Clock Study Guide Answers

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Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

Test Items and Interactive Electronic Study Guide Questions for Starr's Biology : Concept and Applications Larry G. Sellers, 2000

Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

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Genetics Robert J. Brooker, Brooker Robert, 2004-06 Contains solutions to the end of chapter problems and questions to aid the students in developing their problem solving skills with the steps for each solution This guide follows the order of sections and subsections in the textbook and summarizes the main points in the text figures and tables It also contains concept building exercises

Life William K. Purves, 2001 Authoritative thorough and engaging Life The Science of Biology achieves an optimal balance of scholarship and teachability never losing sight of either the science or the student The first introductory text to present biological concepts

through the research that revealed them Life covers the full range of topics with an integrated experimental focus that flows naturally from the narrative This approach helps to bring the drama of classic and cutting edge research to the classroom but always in the context of reinforcing core ideas and the innovative scientific thinking behind them Students will experience biology not just as a litany of facts or a highlight reel of experiments but as a rich coherent discipline **Biochemistry**

Jeremy M. Berg, Gregory J. Gatto, Jr., Justin Hines, John L. Tymoczko, Lubert Stryer, 2023-02-28 Accompanied by a wide range of interactive features the new edition of Biochemistry is an invaluable resource for your academic and professional careers

Wolpert's Principles of Development Cheryll Arias Tickle (Alfonso Martinez Placzek, Marysia Wolpert, Lewis), 2025 Wolpert's Principles of Development opens up the fascinating field of developmental biology to undergraduates studying biology medicine and veterinary science By focusing on the underlying developmental processes which are shared by diverse organisms the textbook lays the foundation for deep understanding *Biology: How Life Works, Volume 2* James Morris, Daniel Hartl, Andrew Knoll, Robert Lue, Melissa Michael, Andrew Berry, Andrew Biewener, Brian Farrell, N. Michele Holbrook, 2015-11-27 Biology How Life Works was written in response to recent and exciting changes in biology education and technology with the goal of helping students to think like biologists The text visual program and assessments were developed together to provide students with the best resources to gain an understanding of modern biology Content is selected carefully is integrated to illustrate the connections between concepts and follows six themes that are crucial to biology the scientific method chemical and physical processes cells evolution ecological interactions and human impact The second edition continues this approach but includes expanded coverage of ecology new in class activities to assist instructors in active teaching new pedagogical support for visual synthesis maps and expanded and improved assessment **Subject**

Guide to Books in Print, 2001 **The Engineer**, 1872 **Evolution of Life** Cecie Starr, Ralph Taggart, 1998 This selected paperback binding of the Eighth Edition of Biology The Unity and Diversity of Life gives instructors the option of purchasing a shorter text covering selected excerpted topics Six paperbacks are available Cell Biology and Genetics Evolution of Life Diversity of Life Plant Structure and Function Animal Structure and Function and Ecology and Behavior Evolution of Life covers Unit III Principles of Evolution and contains a customized table of contents and the back matter from Biology The Unity and Diversity of Life The Evolution of Life volume includes a brief history of evolutionary thought microevolutionary thought microevolutionary processes macroevolution the origin and macroevolution of life and a case study of human evolution **Moderator-topics**, 1903 *Railway and Engineering Review*, 1897 *Nature* Sir Norman Lockyer, 1905

Cumulated Index Medicus, 1988 *The Saturday Review of Politics, Literature, Science and Art*, 1894 **Human Genetics** Ricki Lewis, 2010 Explains what genes are how they function how they interact with the environment and how our understanding of genetics has changed since completion of the human genome project **Electrical Review** St. James's Theatre (London, England), 1884

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