

# Unit 2 Study Guide

Organic Chemistry I: Chapters 4-6

## Chapter 4: Alkanes

### Key terms

Hydrocarbon	Newman Projection	Torsional strain
Conformation	Angle strain	Steric strain
Dihedral angle	gauche interactions	1,3-diaxial interactions

### Concepts and applications

- Determine the IUPAC name of alkanes, cycloalkanes, and bicycloalkanes given their structure
- Draw the structure of alkanes, cycloalkanes, and bicycloalkanes given their IUPAC name
- Recognize or draw constitutional isomers of alkanes
- Describe the effect of chain length and/or branching on physical properties
- Draw a Newman project of a provided bond-line structure
  - Draw all possible conformations
  - Determine most and least stable conformer
  - Calculate the total energy of a conformation (you should know the energy values of H/H and H/CH<sub>3</sub>)
- Identify the types of strain that are present in a given structure
- Draw chair conformations from bond-line structure of cyclohexane compounds
  - Correctly place axial and equatorial positions
  - Correctly draw cis-/trans-isomers
  - Determine the most stable conformation

## Chapter 5: Stereochemistry

### Key terms

Stereoisomers	Chirality	Optical activity
Enantiomer	Diastereomer	Meso

### Concepts and applications

- Determine the IUPAC name of alkanes including stereochemistry given their structure
- Draw the structure of alkanes with correct stereochemistry given their IUPAC name
- Identify chiral centers/stereocenter in a molecule
- Determine the total number of potential stereoisomers for a compound (2<sup>n</sup>)

# Chemistry Unit 2 Study Guide

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## **Chemistry Unit 2 Study Guide:**

Study Guide General Chemistry, Second Edition, Becker/Wentworth Becker, Benjamin L. Carroll, 1980 *Resources in Education*, 1984 Study Guide and Solutions Manual for McMurry's Organic Chemistry, Fifth Edition Susan McMurry, 2000 Provides answers and explanations to all in text and end of chapter exercises Also includes summaries of name reactions functional group synthesis and reactions lists of reagents and abbreviations and articles on topics ranging from infrared absorption frequencies to the Nobel Prize winners in Chemistry This edition now includes all new artwork expanded in text problems summary quizzes approximately every three chapters more detailed explanations in solutions and chapter outlines *Edexcel as Chemistry* Beavon Rod Facer George, Rod Beavon, 2012 Focused revision for your best possible grade **PSI Study Guide for Organic Chemistry by Douglas C. Neckers, Michael P. Doyle** E. C. Blossey, 1977 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1965 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December *McGraw-Hill Encyclopedia of Science and Technology* Daniel N. Lapedes, 1977 Accompanied by Readers guide 33 p 28 cm New York McGraw Hill c1977 Call number Q121 M3 1977 Suppl 1 Accompanied by Study guide 50 p 28 cm New York McGraw Hill c1977 Call number Q121 M3 1977 Suppl 2 McGraw-Hill encyclopedia of science & technology McGraw-Hill, 2002 *El-Hi Textbooks in Print*, 1984 Catalog and Announcement of Courses San Diego State College, 1899 **Abstracts of Theses, Researches in Progress, and Bibliography of Publications**, 1930 **The Publishers' Trade List Annual**, 1904 *Annual Catalogue of the Lawrence University of Wisconsin* Lawrence University, 1909 **Teaching Science**, 2004 **McGraw-Hill Encyclopedia of Science and Technology**, 1971 *South Pacific Bibliography*, 1996 **Programmed Learning** Carl H. Hendershot, 1967 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1966 *The Science Teacher*, 1987 **Abstracts of Studies in Education at the Pennsylvania State College** Pennsylvania State College. School of Education, 1942

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