

Chapter 3 Web Links

[CHEMystery: An Interactive Guide to Chemistry](#)

Written by high school seniors for the ThinkQuest contest, this is a really nice review and reference site for students at all levels.

[General Chemistry Online: Isomer Construction Set](#)

This site allows you to construct isomers.

[Functional Groups for Modern/Cell Biology](#)

Here you can view the functional groups of an amino acid and glucose. Then you can continue on to view the functional groups of a phospholipid and a nucleotide. After learning about functional groups you can test your knowledge using the online quizzes.

[Smells Database](#)

Click on a compound for a description of its smell (and other characteristics) and 3-D images of its structure.

[Androstenedione](#)

The UC Berkeley Wellness Letter takes a critical look at the health claims made for androstenedione.

[The Macrogalleria: A Cyberwonderland of Polymer Fun](#)

Everything you would want to know about polymers, presented in a shopping mall format.

[Molecular Models for Biochemistry](#)

To view the links from this site you will need the Chemscape Chime plug-in (a link is provided). Click on the links for 3-D pictures of amino acids, proteins, and nucleic acids.

[The Virtual Textbook: Cell Biology](#)

The chemistry of carbohydrates, proteins, lipids, and nucleic acids.

[Aminosauern](#)

A list of amino acids with links to their structures (it's in German, but you don't need to know German to use this site).

[Library of 3-D Molecular Structures](#)

You can view 3-D molecular structures of water and ice, carbon, hydrocarbons, amino acids, nucleotides, lipids, sugars, photosynthesis molecules, and various drugs. Manipulation of the molecules will help you extend your understanding about molecular structure, and help you understand the textbook diagrams. Much fun awaits you with the molecule manipulations.

[Large Molecules Problem Set](#)

An autotutorial program emphasizing protein chemistry.

[RasMol](#)

RasMol's molecular visualization software allows users to interact with molecules in variety of

representations (ball and stick, space-filling, ribbons, etc.) as well as coloring schemes. 3-D stereograms can also be created. Images can be rotated, expanded, or shrunk, and explored interactively.

[Difference Between Olive Oil and Corn Oil](#)

Alice explains some of the different ways saturated and unsaturated fats affect your health.

[Bothered by Boyfriend's Steroid Use](#)

Alice responds to a woman's concern about her boyfriend's steroid use.

[Cholesterol?](#)

As Alice explains, despite its reputation cholesterol is essential to life.

[What Is Jell-O? How does it turn from a liquid to a solid when it cools?](#)

Jell-O is made from protein; therefore, the process of making Jell-O involves manipulating protein structure.

[Academy of Achievement: Linus Pauling, Ph.D.](#)

An interview with Linus Pauling, one of the giants of science.