## **Biochemistry Basics**

What concepts from chemistry are helpful in studying biology?

### Why?

Typically chemistry is a prerequisite course for advanced biology courses. This is because everything in your body, everything in a plant, everything in a virus, etc. is made of atoms. The structures and properties of the molecules in an organism determine the features and properties of the organism. Which molecules are polar, which are nonpolar? Which molecules have acidic properties, which have basic properties? A quick review of these concepts at the beginning of your advanced biology course will help you to understand the molecular basis for life.

#### Model 1 - Molecular Drawings

| Ball-and-stick model of<br>1-pentanol             | Lewis structure of 1-pentanol             | Line drawing of 1-pentanol             |
|---|---|--|
| -4XXX-  |   | H <sub>2</sub> C 004                   |
| Ball-and-stick model of glucose                   | Lewis structure of glucose                | Line drawing of glucose                |
| و و و و و و و و و و و و و و و و و و و             | HO OH HOH                                 | 380 004                                |
| Ball-and-stick model of<br>unsaturated fatty acid | Lewis structure of unsaturated fatty acid | Line drawing of unsaturated fatty acid |
|   |   | CH <sub>3</sub> OH                     |

1. Name the three molecules that are illustrated in Model 1.

2. Name the three types of drawings that are used to illustrate the molecules in Model 1.

# **Biochemistry Basics Pogil Answer Key**

John T. Moore, Richard H. Langley

#### **Biochemistry Basics Pogil Answer Key:**

**Biochemistry** Zeno Gârban,2008 **Biochemistry Basics And Applied** Dr. R. A. Fursule,2008-10-06

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