

**Friday, October 19<sup>th</sup>, 2012**

Unit: The Chemistry of Life Topic: Molecules	Date: 10/19/2012 Class: Biology
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**Michigan Biology Objectives: N/A**

**Illinois Objectives:**

**12.11.53** Understand that in chemical reactions, atoms combine into molecules by means of bonds (e.g., by sharing electrons to form covalent or metallic bonds or by exchanging electrons to form ionic bonds).

**12.11.54** Know that ions are atoms or groups of atoms that have a positive or negative charge and that polyatomic ions are a group of covalently bonded atoms that act like a single atom when combining with other atoms. Understand that metals tend to form positive ions, and nonmetals tend to form negative ions.

**My Lesson Objectives:**

- Students will be able to construct models of common molecules.
- Students will be able to draw the bonds between atoms in a molecule.

Activities:	Materials/Equipment:
<ul style="list-style-type: none"><li>• Periodic Table/Atoms Quiz (10 minutes)</li><li>• Constructing molecular models (40 minutes)</li></ul>	<ul style="list-style-type: none"><li>• Model kits</li><li>• colored pencils</li><li>• worksheet</li></ul>

Assessment: (Embedded, Formal)

**Embedded:**

- Worksheet for students to determine the number and type of atoms in a molecule and for them to draw the molecule they made with their molecular model kits.

**Formal:**

- Quiz