

## **Strand 2- Chemical Bonds**

**=> AUHSD Science Content Standards 2d, 3a-c, & 3e <=**

### **Chapter 7- Chemical Formulas and Bonding (2 weeks)**

#### Topics of Discussion

Ionic Bonding

Covalent Bonding

Naming Chemical Compounds

#### Activities

HW- pp. 252-3(#1-26) & #27-34 for Honors

CW- Writing Formulas and Names of Ionic Compounds

CW- Molecular Formulas and Names

CW- Ionic vs. Molecular

CW- Chemical Nomenclature

Lab- Chemical Names and Formulas

Video- Chemical Bonding

**=> AUHSD Science Content Standards 3e-f <=**

### **Chapter 8- Molecular Shape (2 weeks)**

#### Topics of Discussion

The Shape of Small Molecules

Polarity

#### Activities

HW- pp. 276-77(#1-27) & #28-32 for Honors

CW- Covalent Molecules

Lab- Covalent Bonding and Molecular Structure

Video- VSEPR

Video- Molecular Geometry and Bonding Theories

**=> AUHSD Science Content Standards 3d, 8c, & 8d<=**

### **Chapter 14- Liquids and Solids (1 week)**

#### Topics of Discussion

Condensed States of Matter

Properties of Liquids

The Nature of Solids

Changes of State

Activities

HW- pp. 492-93(#1-27) & #28-33 for Honors

CW- Change of State Problems

Lab- Determination of Absolute Zero

Lab- Phase Changes

Video- Gases and States of Matter (Part 2)

Chapters 7, 8, & 14 Free Response Exam