

NAME \_\_\_\_\_

GROUP \_\_\_\_\_

## CHAPTER 13 SYLLABUS

### STANDARD:

#### **E. STRUCTURE OF MATTER**

*Students will understand the structure of matter and the changes it can undergo.*

### INDICATOR:

**3.** *Students will be able to describe how a substance can combine with different substances in different ways, depending on the conditions and properties of each substance.*

### OBJECTIVES:

1. WHAT IS A CHEMICAL BOND?
2. WHAT ARE THE VALENCE ELECTRONS?
3. NAME THE TWO TYPES OF CHEMICAL BONDS.
4. WHAT ARE IONS?
5. WHAT IS A MOLECULE?
6. DEFINE COVALENT BOND.
7. DEFINE IONIC BOND.
8. WHAT IS A METALIC BOND?
9. NAME THE THREE WAYS THAT ATOMS FORM BONDS

### VOCABULARY I:

CHEMICAL BONDING    VALENCE ELECTRONS    ION  
IONIC BOND    CRYSTAL LATTICE    MOLECULE  
COVALENT BOND    METALIC BOND

### LAB: COVALENT MARSHMELLOWS

### TEACHER DEMONSTRATION (S)

WEB SITES OF INTEREST: [www.scilinks.org](http://www.scilinks.org) HSTP315 & HSTP320

### CLASSWORK:

REVIEW SHEETS  
DIRECTED READING  
SCIENCE SKILLS

### HOMEWORK:

VOCABULARY LISTS  
REINFORCEMENTS  
CONCEPT MAP  
CHAPTER REVIEW P.344 - EX 1-11

### SUPPLEMENTAL PORTFOLIO:

PROBLEM SOLVING  
ENRICHMENT  
CHALLENGE

MATH IN SCIENCE  
NEWSPAPER ARTICLES  
REPORTS

VIDEOS  
PUZZLERS  
ET AL