

NAME \_\_\_\_\_

GROUP \_\_\_\_\_

CHAPTER 14  
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 ARE THE STARTING MATERIALS IN A CHEMICAL REACTION CALLED?
2. WHAT ARE THE ENDING MATERIALS IN A CHEMICAL REACTION CALLED?
3. HAVING A BALANCED CHEMICAL EQUATION SATISFIES WHICH LAW?
4. NAME THE FOUR (4) KINDS OF CHEMICAL REACTION AND DESCRIBE EACH.
5. COMPARE EXOTHERMIC AND ENDOTHERMIC REACTIONS.
6. WHAT IS A SUBSTANCE THAT SPEEDS UP A CHEMICAL REACTION CALLED?
7. WHAT IS A SUBSTANCE THAT SLOWS DOWN A CHEMICAL REACTION CALLED?
8. BALANCE A CHEMICAL EQUATION.

**VOCABULARY I:**

CHEMICAL REACTION	CHEMICAL FORMULA
CHEMICAL EQUATION	REACTANTS      PRODUCTS
LAW OF CONSERVATION OF MASS	SYNTHESIS REACTION
DECOMPOSITION REACTION	

**VOCABULARY II:**

SINGLE – REPLACEMENT REACTION	INHIBITOR
DOUBLE- REPLACEMENT REACTION	CATALYST
EXOTHERMIC      ENDOTHERMIC	ACTIVATION ENERGY
LAW OF CONSERVATION OF ENERGY	

**LAB: CATALYST**

**WEBSITES OF INTEREST: [www.scilinks.org](http://www.scilinks.org) HSTP 330**

**CLASSWORK:**

REVIEW SHEETS  
DIRECTED READING  
SCIENCE SKILLS

**HOMEWORK:**

VOCABULARY LISTS  
REINFORCEMENTS  
CONCEPT MAP  
CHAPTER REVIEW P.368 - EX 1-11

**SUPPLEMENTAL PORTFOLIO:**

PROBLEM SOLVING	MATH IN SCIENCE	VIDEOS
ENRICHMENT	NEWSPAPER ARTICLES	PUZZLERS
CHALLENGE	REPORTS	ET AL