

NAME \_\_\_\_\_

GROUP \_\_\_\_\_

CHAPTER 16  
SYLLABUS

**STANDARD:**

**E. ENERGY**

*Students will understand the concepts of energy.*

**INDICATOR:**

**5.** *Students will be able to categorize energy sources as renewable or non-renewable and compare how these sources are used by humans.*

**OBJECTIVES:**

1. NAME THE THREE KINDS OF DECAY AND WHAT STOPS EACH.
2. WHAT IS RADIOACTIVITY?
3. WHAT TEST IS DONE TO DETERMINE THE AGE OF FOSSILS?
4. DESCRIBE HALF – LIFE.
5. NAME THE TWO TYPES OF NUCLEAR REACTIONS AND DESCRIBE THE PROCESS OF EACH.
6. WHAT IS A NUCLEAR CHAIN REACTION?
7. IDENTIFY ADVANTAGES AND DISADVANTAGES OF GETTING FROM THE NUCLEUS.

**VOCABULARY I:**

NUCLEAR RADIATION  
ALPHA PARTICLE

RADIOACTIVITY  
BETA PARTICLE

ISOTOPES  
GAMMA DECAY

**VOCABULARY II:**

RADIOACTIVE DECAY  
NUCLEAR FISSION

HALF – LIFE  
NUCLEAR FUSION

MASS NUMBER

NUCLEAR CHAIN REACTION

**LAB: HEADSIUM**

**TEACHER DEMONSTRATION (S)**

**WEB SITES OF INTEREST:** [www.scilinks.org](http://www.scilinks.org) HSTP380

**CLASSWORK:**

REVIEW SHEETS  
DIRECTED READING  
SCIENCE SKILLS  
MINIQUIZZES

**HOMEWORK:**

VOCABULARY LISTS  
REINFORCEMENTS  
PRACTICE SHEETS  
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**SUPPLEMENTAL PORTFOLIO:**

PROBLEM SOLVING  
ENRICHMENT  
CHALLENGE

MATH IN SCIENCE  
NEWSPAPER ARTICLES  
REPORTS

VIDEOS  
PUZZLERS  
ET AL