

NAME \_\_\_\_\_

GROUP \_\_\_\_\_

CHAPTER 19  
SYLLABUS

**STANDARD:**

**H. ENERGY – STUDENTS WILL UNDERSTAND THE CONCEPTS OF ENERGY**

**INDICATOR:**

**4. DESCRIBE THE CHARACTERISTICS OF STATIC AND CURRENT ELECTRICITY.**

**OBJECTIVES:**

1. WHAT IS A SEMICONDUCTOR?
2. NAME THE TWO TYPES OF SEMICONDUCTORS.
3. NAME THE TWO ELEMENTS USED TO DOPE SEMICONDUCTORS.
4. NAME THE TWO USES OF TRANSISTORS.
5. HOW MANY SEMICONDUCTOR LAYERS IN A DIODE?  
TRANSISTOR?
6. WHAT IS A SIGNAL?
7. NAME AND EXPLAIN THE TWO TYPES OF SIGNALS.
8. WHAT IS A CRT?
9. WHAT IS A COMPUTER?
10. NAME THREE PIECES OF COMPUTER HARDWARE.
11. WHAT IS SOFTWARE?
12. NAME AND EXPLAIN THE TWO TYPES OF COMPUTER MEMORY?

**VOCABULARY I:**

CIRCUIT BOARD    SEMICONDUCTOR    DOPING    DIODE  
TRANSISTOR    INTEGRATED CIRCUIT    TELECOMMUNICATION

**VOCABULARY LIST II:**

SIGNAL    ANALOG SIGNAL    DIGITAL SIGNAL  
COMPUTER    MICROPROCESSOR    HARDWARE  
SOFTWARE    INTERNET

**LAB: INFERENCE BOARDS**

**TEACHER DEMONSTRATION (S)**

**WEBSITES OF INTEREST:** [www.scilinks.org](http://www.scilinks.org) HSTP 455

**CLASSWORK:**

REVIEW SHEETS  
DIRECTED READING  
SCIENCE SKILLS  
MINIQUIZZES

**HOMEWORK:**

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

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

