

## **Physical Science—Chapter 16 Study Guide Electronics**

- I. Foundations to electronics
  - a. Definition of electronics: study of the behavior and motion of electrons in a vacuum or special materials such as semiconductors
  - b. Vacuum tube—general term for any “vacuumized” glass tube with containing electrodes; because the tube does not contain air, electrons are able to flow from one electrode to the other when voltage is applied to them
    - i. Cathode—negative electrode
    - ii. Anode—positive electrode
  - c. Special types of vacuum tubes
    - i. Cathode-ray tube—any simple vacuum tube designed so that electrons would flow through the vacuum when voltage is applied
      - 1. Crookes Tube—the earliest version of this tube—Crookes coated the inside of the tube with a substance that glowed when the electrons struck it
      - 2. Picture tube—a more advance version of the Crookes tube which allowed the beam of electrons to be directed in such a way to produce a picture on the side of the tube where the electrons strike
      - 3. X-ray tube— a vacuum tube with extra high voltage so that x-rays are produces when the electrons strike the anode
    - ii. Diode—a vacuum tube which contains a filament which serves as the cathode and a plate which serves as the anode
      - 1. Thermionic emission—the flow of electrons which have been knocked off the filament to the plate
      - 2. Diodes are useful because they can convert AC to DC
    - iii. Triode—a vacuum tube containing a chargeable grid between the cathode and anode
      - 1. Can be used as a switch, to cut off the flow of electrons
      - 2. Can be used to amplify or lessen the flow of electrons
- II. Semiconductors
  - a. Semiconductors are materials that are neither a good conductor nor a good insulator
  - b. The most common are silicon and germanium
  - c. Doping—process of adding another material to a semiconductor to change its behavior
    - i. N-type semiconductor—semiconductor with extra electrons (negative charge)
    - ii. P-type semiconductor—semiconductor with a deficiency of electrons (positive charge)

# Physical Science Chapter 16 Section Answers

**CO Houle**



## **Physical Science Chapter 16 Section Answers:**

The book delves into Physical Science Chapter 16 Section Answers. Physical Science Chapter 16 Section Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Chapter 16 Section Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Physical Science Chapter 16 Section Answers
    - Chapter 2: Essential Elements of Physical Science Chapter 16 Section Answers
    - Chapter 3: Physical Science Chapter 16 Section Answers in Everyday Life
    - Chapter 4: Physical Science Chapter 16 Section Answers in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, this book will delve into the foundational concepts of Physical Science Chapter 16 Section Answers. This chapter will elucidate the essential principles that need to be understood to grasp Physical Science Chapter 16 Section Answers in its entirety.
  4. In chapter 3, this book will examine the practical applications of Physical Science Chapter 16 Section Answers in daily life. The third chapter will showcase real-world examples of how Physical Science Chapter 16 Section Answers can be effectively utilized in everyday scenarios.
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  6. In chapter 5, this book will draw a conclusion about Physical Science Chapter 16 Section Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Chapter 16 Section Answers.

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