

## **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

**Craig T. Smith**



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