- 1. Identify at least 20 symbols used in electronics.
- 2. Identify the value of resistors by the color code.
- 3. Demonstrate proper soldering techniques.
- 4. Explain use and operation of various important components in electronics such as resistors, variable capacitors, fixed capacitors, coils, transistors, integrated circuits, diodes, and transformers.
- 5. Know and understand Ohm's law.
- 6. Determine how to correctly place or pin integrated circuits, transistors, diodes, and capacitors in a circuit board.
- 7. What is meant by a parallel and a series circuit?
- 8. From a kit or from scratch make two of the following:
  - **a.** Photocell guard or counter
  - **b.** Siren
  - c. Simple voltmeter
  - d. Pressure sensor
  - e. Simple DC power supply
  - **f.** Simple transistor radio
- **9.** Draw from memory, using proper symbols, the complete wiring diagram of the devices constructed in requirement 8.
- 10. List ten ways electronics are used in everyday life.

## Skill Level 2

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