



Pathfinder's Name

Radio Electronics

1. Identify at least 20 symbols used in electronics.
- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

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 _____

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.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Date completed _____

Instructor's Signature _____