Electronics Merit Badge Prerequisite 2024

Electronics Merit Badge | Boy Scouts of America (scouting.org)

- 2. Do the following:
 - a. Draw a simple schematic diagram. It must show resistors, capacitors, and transistors or integrated circuits, Use the correct symbols. Label all parts.
 - b. Tell the purpose of each part.
- 4. Do the following:
 - a) Discuss each of the following with your merit badge counselor:
 - (i) How to use electronics for a control purpose
 - (ii) The basic principles of digital techniques
 - (iii) How to use electronics for three different audio applications
 - c. Choose ONE of the following three projects. For your project, find or create a schematic diagram. To the best of your ability, explain to your counselor how the circuit you built operates.
 - A control device
 - A digital circuit
 - An audio circuit
- 5. Do the following: a. Show how to solve a simple problem involving current, voltage, and resistance using Ohm's law
- 6. Find out about three career opportunities in electronics that interest you. Discuss with and explain to your counselor what training and education are needed for each position