

Measuring Current

Purpose: To determine where the switch should be placed in a circuit and to determine how the current at one point in a circuit compares to other points in the circuit.

Materials and Methods: Refer to text, Investigation 10A, pp. 326-327.

Observations/Results:

| Location of Switch and Ammeter | Bulb Type (Volts, V) | Filament Diameter (small, large) | Bulb Brightness (dim, bright) | Electric Current (Amperes, A) |
|------------------------------------|----------------------|----------------------------------|-------------------------------|-------------------------------|
| between positive terminal and bulb | 14 V | | | |
| between negative terminal and bulb | 14 V | | | |
| between negative terminal and bulb | 6.3 V | | | |

Drawings: (use pencil, ruler, labels)

1. Draw a diagram of the ammeter.
2. Draw a circuit diagram for each circuit you build.

Analyze: (#1-3)

Conclude and Apply: (#4-7)