

Student Activity Sheet 1-4

Common Electrical Terms and Symbols

Name _____

Score _____

Date _____

In this exercise you will become familiar with the common terms and symbols associated with basic electrical theory. This exercise also provides you with more practice using Ohm's law. The following electrical terms and symbols are used to describe electrical circuit action.

Voltage	E, V, volts, electrical pressure, electromotive force (emf), potential
Current	I, A, amperes, amps, electron flow
Resistance	R, Ω , Ohms

Relate the terms and symbols to Ohm's law, and solve for the unknown values. Formulas for Ohm's law can be found on the previous Student Activity Sheet or in the textbook.

- _____ volts 3Ω 5 A
- _____ Ω 12 E 6 A
- _____ A 6 emf 24Ω
- _____ potential 20 R 2 A
- _____ resistance 0.25 A 12 V
- _____ amperes 100Ω 24 E
- _____ E 1000Ω 0.01 A
- _____ ohms 18 V 0.025 amperes
- _____ V 2200Ω 0.15 I
- _____ I 6 volts 100 ohms