

Free Electrons

# LABORATORY MEASUREMENTS



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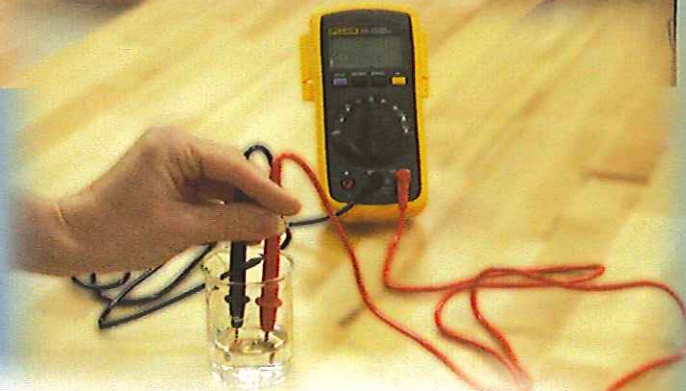
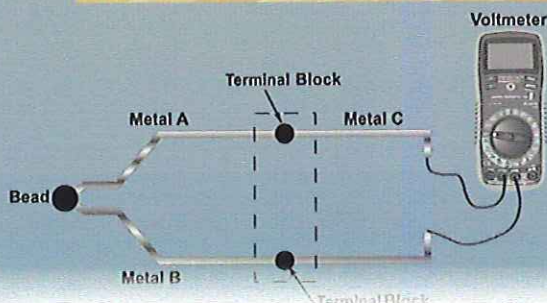
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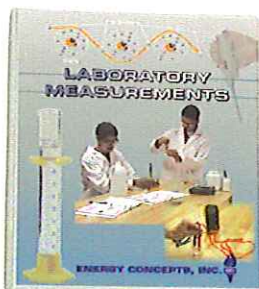
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In the ECI 16300 Lab Measurements package, students develop measurement skills to be used in a laboratory setting. This involves the use of a number of tools and mathematical evaluations. The hands-on experiments help students gain the ability to make accurate measurements, and use the laboratory equipment correctly, which is often crucial to the success or failure of a laboratory experiment. Students will find that these skills will be useful in virtually any time of laboratory environment.

# The Laboratory Manual



The Laboratory Manual is designed to help students develop a thorough understanding of the subject matter. The manual is clearly written and professionally illustrated. It is printed in two-colors and comes in a quality vinyl binder.

## Understanding Laboratory Instrumentation and Measurements

Using a glass thermometer, getting acquainted with other types of thermometers.

### Volume Measurement

Using beakers, flasks, and graduated cylinders. Using macro and micro pipettes.

### Weight Measurement

Using a balance

### Spectrophotometer

Measuring UV/Vis absorbance of colored dye solutions

### Measuring pH

Measuring pH

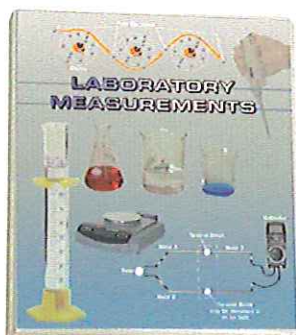
### Conductivity

Measuring conductivity

### Hydrometers

Measuring specific gravity

## Resource Guide



The Resource Guide includes sample data and answers to quiz questions, as well as a Student Journal CD. The instructor can also have the students print paper copies to hand in for grading.

## Student Journal



The Student Journal provides an easy and convenient way for students to enter and save their data and answers for the experiments and questions. The answers to all the quiz questions are also included.

**ENERGY CONCEPTS, INC.**

800-621-1247

[www.eci-info.com](http://www.eci-info.com)

