

# Circuits and Circuit Elements

## Planning Guide

### Compression Guide

To shorten instruction because of time limitations, omit the opener and Section 2 and abbreviate the review.

## OBJECTIVES

## LABS, DEMONSTRATIONS, AND ACTIVITIES

## TECHNOLOGY RESOURCES

PACING +45 min

pp. 638–639

## Chapter Opener

**ANC** Discovery Lab Exploring Circuit Elements\* **1 min**
**CD** Visual Concepts, Chapter 18 **1 min**

PACING +45 min

pp. 640–648

## Section 1 Schematic Diagrams and Circuits

- Interpret and construct circuit diagrams.
- Identify circuits as open or closed.
- Deduce the potential difference across the circuit load, given the potential difference across the battery's terminals.

**SE** Quick Lab Simple Circuits, p. 644 **1 min**
**OIS** Lesson Plans  
**EXT** Integrating Technology Incandescent Light Bulbs **1 min**  
**TR** 94 Schematic Diagram Symbols  
**TR** 95 Light Bulb

PACING +135 min

pp. 647–656

## Section 2 Resistors in Series or in Parallel

- Calculate the equivalent resistance for a circuit of resistors in series, and find the current in and potential difference across each resistor in the circuit.
- Calculate the equivalent resistance for a circuit of resistors in parallel, and find the current in and potential difference across each resistor in the circuit.

**TE** Demonstration Resistors in Series, p. 647 **1 min**  
**SE** Quick Lab Series and Parallel Circuits, p. 652 **1 min**  
**TE** Demonstration Resistors in Parallel, p. 652 **1 min**  
**SE** Inquiry Lab Resistors in Series and in Parallel, pp. 654–675 **1 min**  
**ANC** Dataquest Inquiry Lab, Resistors in Series and in Parallel\* **1 min**  
**ANC** Dataquest Skills Practice Lab, Resistors in Series and in Parallel\* **1 min**  
**ANC** CBL™ Experiment Resistors in Series and in Parallel\* **1 min**  
**ANC** CBL™ Experiment Series and Parallel Circuits\* **1 min**

**OIS** Lesson Plans  
**TR** 86A Resistors in Series and Parallel  
**TR** 87A Series and Parallel Decorative Lights

PACING +45 min

pp. 657–664

Advanced Level

## Section 3 Complex Resistor Combinations

- Calculate the equivalent resistance for a complex circuit involving both series and parallel portions.
- Calculate the current in and potential difference across individual elements within a complex circuit.

**ANC** Investigation Lab Designing a Dimmer Switch\* **1 min**
**OIS** Lesson Plans  
**CD** Interactive Tutor Module 17, Electrical Circuits **1 min**  
**OIS** Interactive Tutor Module 17, Worksheet **1 min**  
**EXT** Integrating Health Recording Electricity in the Brain **1 min**  
**TR** 96 Finding Equivalent Resistance  
**TR** 97 Components of a Decorative Light Bulb

PACING +90 min

## CHAPTER REVIEW, ASSESSMENT, AND STANDARDIZED TEST PREPARATION

- SE** Chapter Highlights, p. 665
- SE** Chapter Review, pp. 666–671
- SE** Graphing Calculator Practice, p. 670 **1 min**
- SE** Alternative Assessment, p. 671 **1 min**
- SE** Standardized Test Prep, pp. 672–673 **1 min**
- SE** Appendix D: Equations, p. 683
- SE** Appendix I: Additional Problems, pp. 693–698

**ANC** Study Guide Worksheet Mixed Review\* **1 min**
**ANC** Chapter Test A\* **1 min**
**ANC** Chapter Test B\* **1 min**
**OIS** Test Generator

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# Circuits And Circuit Elements Study Guide

**Frank J. Ambrosio**



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