

# 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
<b>PACING +45 min</b> pp. 638–639 <b>Chapter Opener</b>	<b>ANC</b> Discovery Lab Exploring Circuit Elements* <b>Link</b>	<b>CD</b> Visual Concepts, Chapter 18 <b>Link</b>
<b>PACING +45 min</b> pp. 640–648 <b>Section 1 Schematic Diagrams and Circuits</b> <ul style="list-style-type: none"> <li>Interpret and construct circuit diagrams.</li> <li>Identify circuits as open or closed.</li> <li>Deduce the potential difference across the circuit load, given the potential difference across the battery's terminals.</li> </ul>	<b>SE</b> Quick Lab Simple Circuits, p. 644 <b>Link</b>	<b>DSP</b> Lesson Plans <b>EXT</b> Integrating Technology Incandescent Light Bulbs <b>Link</b> <b>TR</b> 94 Schematic Diagram Symbols <b>TR</b> 95 Light Bulb
<b>PACING +135 min</b> pp. 647–656 <b>Section 2 Resistors in Series or in Parallel</b> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	<b>TE</b> Demonstration Resistors in Series, p. 647 <b>Link</b> <b>SE</b> Quick Lab Series and Parallel Circuits, p. 652 <b>Link</b> <b>TE</b> Demonstration Resistors in Parallel, p. 652 <b>Link</b> <b>SE</b> Inquiry Lab Resistors in Series and in Parallel, pp. 654–675 <b>Link</b> <b>ANC</b> Dataquest Inquiry Lab, Resistors in Series and in Parallel* <b>Link</b> <b>ANC</b> Dataquest Skills Practice Lab, Resistors in Series and in Parallel* <b>Link</b> <b>ANC</b> CBL™ Experiment Resistors in Series and in Parallel* <b>Link</b> <b>ANC</b> CBL™ Experiment Series and Parallel Circuits* <b>Link</b>	<b>DSP</b> Lesson Plans <b>TR</b> 80A Resistors in Series and Parallel <b>TR</b> 81A Series and Parallel Decorative Lights
<b>PACING +45 min</b> pp. 657–664 <i>Advanced Level</i> <b>Section 3 Complex Resistor Combinations</b> <ul style="list-style-type: none"> <li>Calculate the equivalent resistance for a complex circuit involving both series and parallel portions.</li> <li>Calculate the current in and potential difference across individual elements within a complex circuit.</li> </ul>	<b>ANC</b> Innovation Lab Designing a Dimmer Switch* <b>Link</b>	<b>DSP</b> Lesson Plans <b>CD</b> Interactive Tutor Module 17, Electrical Circuits <b>Link</b> <b>DSP</b> Interactive Tutor Module 17, Worksheet <b>Link</b> <b>EXT</b> Integrating Health Recording Electricity in the Brain <b>Link</b> <b>TR</b> 96 Finding Equivalent Resistance <b>TR</b> 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 **Link**
- SE** Alternative Assessment, p. 671 **Link**
- SE** Standardized Test Prep, pp. 672–673 **Link**
- SE** Appendix D: Equations, p. 683
- SE** Appendix I: Additional Problems, pp. 693–698
- ANC** Study Guide Worksheet Mixed Review\* **Link**
- ANC** Chapter Test A\* **Link**
- ANC** Chapter Test B\* **Link**
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# Circuits And Circuit Elements Study Guide

**Stanley A. Williams**



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