

**CHAPTER 18**

# Circuits and Circuit Elements

## Planning Guide

**Comprehension Guide**

To identify resistors  
Analyze series resistors  
Analyze parallel resistors  
Solve the system and Section  
2 and determine the current

OBJECTIVES	LABS, DEMONSTRATIONS, AND ACTIVITIES	TECHNOLOGY RESOURCES
<b>PACING: ~15 min</b> <b>Chapter Opener</b> <b>PACING: ~15 min</b> <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>Decide the potential difference across the circuit load, given the potential difference across the battery's terminals.</li> </ul>	<b>ANC</b> Discovery Lab Exploring Circuit Elements* <b>SL</b> Quick Lab Simple Circuits, p. 644	<b>CD</b> Visual Concepts, Chapter 18
<b>PACING: ~15 min</b> <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>DL</b> Demonstrations Resistors in Series, p. 647 <b>SL</b> Quick Lab Series and Parallel Circuits, p. 652 <b>DL</b> Demonstrations Resistors in Parallel, p. 652 <b>SL</b> Inquiry Lab Resistors in Series and in Parallel, pp. 654-657 <b>ANC</b> Database! Inquiry Lab, Resistors in Series and in Parallel* <b>ANC</b> Database! Skills Practice Lab, Resistors in Series and in Parallel* <b>ANC</b> CBL™ Experiment Resistors in Series and in Parallel* <b>ANC</b> CBL™ Experiment Series and Parallel Circuits* 	<b>OSP</b> Lesson Plans <b>TE</b> 6.1A Resistors in Series and Parallel <b>TE</b> 6.1A Series and Parallel Decorative Lights
<b>PACING: ~15 min</b> <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> Invention Lab Designing a Dinner Switch* 	<b>OSP</b> Lesson Plans <b>CD</b> Interactive Tutor Module 17, Electrical Circuits <b>OSP</b> Interactive Tutor Module 17, Worksheet <b>EXT</b> Integrating Health Recording Electricity in the Brain <b>TE</b> 6.1 Finding Equivalent Resistance <b>TE</b> 6.1 Components of a Decorative Light Bulb
<b>PACING: ~30 min</b> <b>CHAPTER REVIEW, ASSESSMENT, AND STANDARDIZED TEST PREPARATION</b>	<b>SL</b> Chapter Highlights, p. 665 <b>SL</b> Chapter Review, pp. 666-671 <b>SL</b> Graphing Calculator Practice, p. 676 <b>SL</b> Alternative Assessment, p. 671 <b>SL</b> Standardized Test Prep, pp. 672-673 <b>SL</b> Appendix D Equations, p. 682 <b>SL</b> Appendix E Additional Problems, pp. 683-684 <b>ANC</b> Study Guide Worksheet Mixed Review* <b>ANC</b> Chapter Test A* <b>ANC</b> Chapter Test B* <b>OSP</b> Test Generator	

**PACING: ~30 min****CHAPTER REVIEW, ASSESSMENT, AND STANDARDIZED TEST PREPARATION**

- SL Chapter Highlights, p. 665
- SL Chapter Review, pp. 666-671
- SL Graphing Calculator Practice, p. 676
- SL Alternative Assessment, p. 671
- SL Standardized Test Prep, pp. 672-673
- SL Appendix D Equations, p. 682
- SL Appendix E Additional Problems, pp. 683-684
- ANC** Study Guide Worksheet Mixed Review\*
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# Circuits And Circuit Elements Study Guide

**Frank J. Ambrosio**

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