Chapter Pacing Guide

Please note that this pace is based on completing selected sections of the text in 90 classes, approximately 90 minutes each. Refer to the Course Planning Guide on page xvii of this booklet for a complete list of time allotments assigned to each section. Less time can be allocated for each chapter if you plan to teach all 26 chapters.

<table>
<thead>
<tr>
<th>Period</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>7.1 Properties of s-Block Elements</td>
</tr>
<tr>
<td>0.5</td>
<td>7.2 Properties of p-Block Elements</td>
</tr>
<tr>
<td>0.5</td>
<td>7.3 Properties of d-Block and f-Block Elements</td>
</tr>
<tr>
<td>0.5</td>
<td>Review and Assessment</td>
</tr>
</tbody>
</table>
Properties of s-Block Elements pages 179–185

National Science Content Standards: UCP.1, UCP.2, UCP.5; A.1; B.1, B.2, B.3, B.6; E.2; F.5; G.3
AL COS: 7, 17, 20, 23
AHSGE: ST I OBJ 1; ST II OBJ 2, 3

Objectives
• Explain how elements in a given group are both similar and different.
• Discuss the properties of hydrogen.
• Describe and compare the properties of alkali metals and alkaline earth metals.

Lesson Resources
Section Focus Transparency 23 and Master
Teaching Transparency 22 and Master
ChemLab and MiniLab Worksheets, pp. 25–28
TCR
Study Guide for Content Mastery, pp. 37–38 TCR

Multimedia Resources
Chemistry Interactive CD-ROM, Section 7.1
MindJogger Videoquizzes, Ch. 7
Guided Reading Audio Program, Section 7.1

Lesson Plan

<table>
<thead>
<tr>
<th>Activity</th>
<th>Resources</th>
<th>Suggested Time</th>
</tr>
</thead>
</table>
| Classroom Management
  • Display the Section Focus Transparency and have students answer the questions.
  • Distribute the corrected Chapter 6 tests. | Section Focus Transparency 23 and Master | 5 minutes      |
| Core Lesson
  • Introduce Chapter 7 with the Quick Demo.
  • Teach the main concepts of Section 7.1.
  • Have students read the ChemLab and begin the pre-lab steps. (Note: this lab will take 45 minutes to complete. Time adjustments may be necessary in subsequent lessons.) | TWE, p. 180
TWE, pp. 179–185
SE, pp. 202–203 | 25–30 minutes |
| In-Class Check
  • Complete the Check for Understanding strategy. | TWE, p. 185 | 5–10 minutes |
| Homework
  • Have students complete Section 7.1 Assessment.
  • Assign relevant questions from Chapter 7 Assessment. | SE, p. 185
SE, pp. 206–209 | 5 minutes |

(total = 45 minutes)
Properties of p-Block Elements pages 186–196

National Science Content Standards: UCP.1, UCP.2, UCP.5; B.1, B.2, B.3; E.1, E.2; F.1, F.4, F.5, F.6; G.3
AL COS: 17, 20, 23
AHSGE: ST II OBJ 2, 3

Objectives
• Describe and compare properties of p-block elements.
• Define allotropes and provide examples.
• Explain the importance to organisms of selected p-block elements.

Lesson Resources
Section Focus Transparency 24 and Master
Teaching Transparency 23 and Master
Study Guide for Content Mastery, pp. 39–40 TCR

Multimedia Resources
Chemistry Interactive CD-ROM, Section 7.2 Video and Experiment
MindJogger Videotequizzes, Ch. 7
Guided Reading Audio Program, Section 7.2
Cosmic Chemistry Videodisc, Disc 1, Side 1; Disc 2, Side 4; Disc 3, Side 5; Disc 3, Side 6; Disc 4, Side 8

Using the Internet in the Science Classroom, TCR Chemistry Web site: al.science.glencoe.com

Optional Resources
Solving Problems: A Chemistry Handbook, Section 7.2 TCR
Spanish Resources 7.2 TCR

Lesson Plan

<table>
<thead>
<tr>
<th>Activity</th>
<th>Resources</th>
<th>Suggested Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom Management</td>
<td>Section Focus Transparency 24 and Master</td>
<td>5 minutes</td>
</tr>
<tr>
<td></td>
<td>and Master TWE, pp. 185, 206–209</td>
<td></td>
</tr>
<tr>
<td>Discussion</td>
<td>TWE, pp. 185, 206–209</td>
<td>0–5 minutes</td>
</tr>
<tr>
<td>Core Lesson</td>
<td>TWE, p. 186</td>
<td>15–20 minutes</td>
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<tr>
<td></td>
<td>TWE, pp. 186–196</td>
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<tr>
<td>In-Class Check</td>
<td>TWE, p. 196</td>
<td>15 minutes</td>
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<tr>
<td>Homework</td>
<td>SE, p. 196</td>
<td>5 minutes</td>
</tr>
<tr>
<td></td>
<td>SE, p. 191</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SE, pp. 206–209</td>
<td></td>
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</tbody>
</table>

[total = 45 minutes]
Properties of d-Block and f-Block Elements  

**Objectives**
- Compare the electron configurations of transition and inner transition metals.
- Describe the properties of transition elements.
- Explain why some transition metals form compounds with color and some have magnetic properties.

**Lesson Resources**
- Section Focus Transparency 25 and Master
- Teaching Transparency 24 and Master
- Study Guide for Content Mastery, pp. 41–42 TCR
- Chemistry Interactive CD-ROM, Section 7.3
- MindJogger Videoquizzes, Ch. 7
- Guided Reading Audio Program, Section 7.3
- Using the Internet in the Science Classroom, TCR
- Chemistry Web site: al.science.glencoe.com

**Optional Resources**
- Laboratory Manual, pp. 49–52 TCR
- Small-Scale Laboratory Manual, pp. 13–20 TCR
- Solving Problems: A Chemistry Handbook, Section 7.3 TCR
- Spanish Resources 7.3 TCR

**Lesson Plan**

<table>
<thead>
<tr>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td><strong>Classroom Management</strong></td>
<td>Section Focus Transparency 25 and Master</td>
<td>5 minutes</td>
</tr>
<tr>
<td></td>
<td>Teaching Transparency 24 and Master</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Study Guide for Content Mastery, pp. 41–42 TCR</td>
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</tr>
<tr>
<td><strong>Discussion</strong></td>
<td>TWE, pp. 191, 196, 206–209.</td>
<td>0–5 minutes</td>
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<td><strong>Core Lesson</strong></td>
<td>TWE, pp. 197–201</td>
<td>15–20 minutes</td>
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<tr>
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<td>TWE, p. 198</td>
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<td><strong>In-Class Check</strong></td>
<td>TWE, p. 201</td>
<td>15 minutes</td>
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<td></td>
<td>TWE, pp. 178–209</td>
<td></td>
</tr>
<tr>
<td><strong>Homework</strong></td>
<td>SE, p. 201</td>
<td>5 minutes</td>
</tr>
<tr>
<td></td>
<td>TWE, p. 199</td>
<td></td>
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<tr>
<td></td>
<td>SE, pp. 206–209</td>
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</table>

[total = 45 minutes]
The Elements

Assessment Resources

- Chapter Assessment, Ch. 7 TCR
- Performance Assessment in the Science Classroom, TCR
- Alternate Assessment in the Science Classroom, TCR
- Reviewing Chemistry: Preparing for the AHSGE, TCR

Multimedia Resources

- MindJogger Videoquizzes, Ch. 7
- TestCheck Software, Ch. 7
- Chemistry Interactive CD-ROM, Ch. 7 quiz
- Vocabulary PuzzleMaker Software, Ch. 7

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</thead>
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<tr>
<td>Classroom Management</td>
<td>TWE, pp. 199, 201, 206–209</td>
<td>5 minutes</td>
</tr>
<tr>
<td>Reviewing the Chapter</td>
<td>TWE, pp. 178–209</td>
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</tr>
<tr>
<td>Assessment</td>
<td>Chapter Assessment, pp. 37–42 TCR</td>
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</tr>
<tr>
<td>Closing</td>
<td>SE, p. 210</td>
<td>0–5 minutes</td>
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[total = 45 minutes]