BLOCK SCHEDULE LESSON PLAN 1

# Introduction to Chemistry

## 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.

| Period | Content |
|---|---|
| 0.25 | 1.2 Chemistry and Matter |
| 0.25 | 1.3 Scientific Methods |
| 0.5 | Review and Assessment |

BLOCK SCHEDULE LESSON PLAN 1.2

| Pacing Guide |
| --- |
| 1/4 period |
| Lesson |

# Chemistry and Matter *pages 7–9*

**Key:** *SE* = Student Edition, *TWE* = Teacher Wraparound Edition, *TCR* = Teacher Classroom Resources

**National Science Content Standards:** UCP.1, UCP.2; A.1; B.2; G.1, G.2

**Georgia QCC:** 4

## Objectives

- **Define** chemistry and matter.
- **Compare** and **contrast** mass and weight.
- **Describe** why chemists are interested in a submicroscopic description of matter.

## Lesson Resources

_____ Section Focus Transparency 2 and Master
_____ *Study Guide for Content Mastery*, pp. 2–3 *TCR*

## Optional Resources

_____ *Solving Problems: A Chemistry Handbook*, Section 1.2 *TCR*
_____ *Spanish Resources* 1.2, *TCR*

## Multimedia Resources

_____ **Chemistry Interactive CD-ROM,** Section 1.2 Demonstration
_____ **MindJogger Videoquizzes,** Ch. 1
_____ **Guided Reading Audio Program,** Section 1.2
_____ *Using the Internet in the Science Classroom*, *TCR*
_____ Chemistry Web site: **ga.science.glencoe.com**

## Lesson Plan

| Activity | Resources | Suggested Time |
| --- | --- | --- |
| **Classroom Management**<br>• Display the Section Focus Transparency and have students answer the questions. | Section Focus Transparency 2 and Master | 2 minutes |
| **Core Lesson**<br>• Introduce Section 1.2 with the Quick Demo.<br>• Teach the main concepts of Section 1.2. | *TWE*, p. 7<br>*TWE*, pp. 7–9 | 10 minutes |
| **In-Class Check**<br>• Reinforce Section 1.2 concepts using the Knowledge Assessment.<br>• Complete the Check for Understanding and Reteach strategies. | *TWE*, p. 9<br>*TWE*, pp. 8–9 | 8 minutes |
| **Homework**<br>• Have students complete Section 1.2 Assessment.<br>• Assign relevant questions from Chapter 1 Assessment. | *SE*, p. 9<br>*SE*, pp. 22–23 | 3 minutes |

[total = 23 minutes]

BLOCK SCHEDULE LESSON PLAN 1.3

| Pacing Guide |
| --- |
| 1/4 period |
| Lesson and ChemLab |

# Scientific Methods *pages 10–13*

**Key:** *SE* = Student Edition, *TWE* = Teacher Wraparound Edition, *TCR* = Teacher Classroom Resources

**National Science Content Standards:** UCP.1, UCP.2; A.2; G.1, G.2
**Georgia QCC:** 1.2, 2

## Objectives

- **Identify** the common steps of scientific methods.
- **Compare** and **contrast** types of data.
- **Compare** and **contrast** types of variables.
- **Describe** the difference between a theory and a scientific law.

## Lesson Resources

_____ Section Focus Transparency 3 and Master
_____ Teaching Transparency 2 and Master
_____ *ChemLab and MiniLab Worksheets*, pp. 2–4 *TCR*
_____ *Study Guide for Content Mastery*, pp. 4–5 *TCR*

## Multimedia Resources

_____ **MindJogger Videoquizzes,** Ch. 1
_____ **Guided Reading Audio Program,** Section 1.3
_____ *Using the Internet in the Science Classroom*, *TCR*
_____ Chemistry Web site: **ga.science.glencoe.com**

## Optional Resources

_____ *CBL Laboratory Manual*, pp. 1–4 *TCR*
_____ *Laboratory Manual*, pp. 1–4 *TCR*
_____ *Solving Problems: A Chemistry Handbook*, Section 1.3 *TCR*
_____ *Spanish Resources*, 1.3 *TCR*

## Lesson Plan

| Activity | Resources | Suggested Time |
| --- | --- | --- |
| **Classroom Management**<br>• Display the Section Focus Transparency and have students answer the questions.<br>• Have students check homework answers. | Section Focus Transparency 3 and Master<br>*TWE*, pp. 9, 22–23 | 3 minutes |
| **Discussion**<br>• Answer any questions about homework. | *TWE*, pp. 9, 22–23 | 2 minutes |
| **Core Lesson**<br>• Teach the main concepts of Section 1.3.<br>• Have students read the ChemLab and begin the procedure. (Note: the ChemLab will take 45 minutes to complete. Time adjustments may be necessary in subsequent lessons.) | *TWE*, pp. 10–13<br>*SE*, pp. 18–19 | 10 minutes |
| **In-Class Check**<br>• Complete the Check for Understanding and Reteach strategies. | *TWE*, p. 13 | 5 minutes |
| **Homework**<br>• Have students complete Section 1.3 Assessment.<br>• Assign relevant questions from Chapter 1 Assessment. | *SE*, p. 13<br>*SE*, pp. 22–23 | 3 minutes |

[total = 23 minutes]

**BLOCK SCHEDULE LESSON PLAN**
## Review and Assessment

| Pacing Guide |
|---|
| 1/2 period |
| Review/Assessment |

# Introduction to Chemistry

**Key:** *SE* = Student Edition, *TWE* = Teacher Wraparound Edition, *TCR* = Teacher Classroom Resources

## Assessment Resources

_____ *Chapter Assessment*, Ch. 1 *TCR*
_____ *Performance Assessment in the Science Classroom*, *TCR*
_____ *Alternate Assessment in the Science Classroom*, *TCR*
_____ *Reviewing Chemistry: Mastering the Georgia QCC, TCR*

## Multimedia Resources

_____ **MindJogger Videoquizzes,** Ch. 1
_____ **TestCheck Software,** Ch. 1
_____ **Chemistry Interactive CD-ROM,** Ch. 1 quiz
_____ **Vocabulary PuzzleMaker Software,** Ch. 1

| Activity | Resources | Suggested Time |
|---|---|---|
| **Classroom Management**<br>• Have students check homework answers. | *TWE*, pp. 13, 22–23 | 5 minutes |
| **Reviewing the Chapter**<br>• Answer any questions about homework.<br>• Answer any final questions about Chapter 1. | *TWE*, pp. 13, 22–23<br>*TWE*, pp. 2–23 | 5 minutes |
| **Assessment**<br>• Distribute the test and allow students to work quietly. | *Chapter Assessment*, pp. 1–6 *TCR* | 30–35 minutes |
| **Closing**<br>• As students complete the test, have them read the Chapter 2 Opener.<br>• If students have time, let them explore the Chemistry Online for Chapter 2. | *SE*, p. 24<br>**ga.science.glencoe.com** | 0–5 minutes |

[total = 45 minutes]