

# Units of Measurement



► pages 25–30  
► 1/2 class session(s)

## Section Objectives

- **Define** SI base units for time, length, mass, and temperature.
- **Explain** how adding a prefix changes a unit.
- **Compare** the derived units for volume and density.

## National Science Content Standards

UCP.1, UCP.3; A.1, A.2; B.2; G.1, G.2

## Georgia QCC

1, 1.2, 2.1, 3.1, 14.2

## Focus

\_\_\_\_\_ Section Focus Transparency 5 and Master

## Teach

- \_\_\_\_\_ Discovery Lab, *SE* p. 25
- \_\_\_\_\_ MiniLab, *SE* p. 28
- \_\_\_\_\_ Quick Demo, *TWE* p. 26
- \_\_\_\_\_ Chemistry Journal, *TWE* p. 26
- \_\_\_\_\_ *ChemLab and MiniLab Worksheets*, p. 5 *TCR*
- \_\_\_\_\_ *Small-Scale Laboratory Manual*, pp. 1–4 *TCR*
- \_\_\_\_\_ *Spanish Resources*, 2.1 *TCR*

## Assess

- \_\_\_\_\_ Section Assessment, *SE* p. 30
- \_\_\_\_\_ Check for Understanding, *TWE* p. 30
- \_\_\_\_\_ Reteach, *TWE* p. 30
- \_\_\_\_\_ *Study Guide for Content Mastery*, pp. 7–8 *TCR*

## Enrichment/Application

- \_\_\_\_\_ Extension, *TWE* p. 30
- \_\_\_\_\_ *Cooperative Learning in the Science Classroom*, *TCR*

## Chapter Assessment

- \_\_\_\_\_ Assessment, *TWE* pp. 26, 28, 29, 30
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, *TCR*
- \_\_\_\_\_ *Performance Assessment in the Science Classroom*, *TCR*

## Multimedia Options

- \_\_\_\_\_ **Chemistry Interactive CD-ROM**, Section 2.1 Experiment
- \_\_\_\_\_ **Vocabulary PuzzleMaker Software**, Ch. 2
- \_\_\_\_\_ **Cosmic Chemistry Videodisc**, Disc 1, Side 2
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ Chemistry Web site: [ga.science.glencoe.com](http://ga.science.glencoe.com)

# Scientific Notation and Dimensional Analysis



► pages 31–35  
► 2 class session(s)

## Section Objectives

- Express numbers in scientific notation.
- Use dimensional analysis to **convert** between units.

## National Science Content Standards

UCP.1, UCP.3; A.1, A.2; E.2

## Focus

\_\_\_\_\_ Section Focus Transparency 6 and Master

## Teach

- \_\_\_\_\_ Quick Demo, *TWE* p. 31  
\_\_\_\_\_ Chemistry Journal, *TWE* p. 33  
\_\_\_\_\_ Teaching Transparency 4 and Master  
\_\_\_\_\_ *Spanish Resources, 2.2 TCR*

## Assess

- \_\_\_\_\_ Section Assessment, *SE* p. 35  
\_\_\_\_\_ Check for Understanding, *TWE* p. 35  
\_\_\_\_\_ Reteach, *TWE* p. 35  
\_\_\_\_\_ *Study Guide for Content Mastery*, p. 9 *TCR*

## Enrichment/Application

- \_\_\_\_\_ Extension, *TWE* p. 35  
\_\_\_\_\_ *Cooperative Learning in the Science Classroom, TCR*

## Chapter Assessment

- \_\_\_\_\_ Assessment, *TWE* pp. 32, 35  
\_\_\_\_\_ *Alternate Assessment in the Science Classroom, TCR*  
\_\_\_\_\_ *Performance Assessment in the Science Classroom, TCR*

## Multimedia Options

- \_\_\_\_\_ **Vocabulary PuzzleMaker Software**, Ch. 2  
\_\_\_\_\_ *Using the Internet in the Science Classroom, TCR*  
\_\_\_\_\_ Chemistry Web site: [ga.science.glencoe.com](http://ga.science.glencoe.com)

# How reliable are measurements?

▶ pages 36–42  
▶ 1 class session(s)

## Section Objectives

- **Define** and **compare** accuracy and precision.
- **Use** significant figures and rounding to reflect the certainty of data.
- **Use** percent error to **describe** the accuracy of experimental data.

## National Science Content Standards

UCP.1, UCP.3; A.1, A.2; E.2; G.2

## Georgia QCC

1.2

## Focus

\_\_\_\_\_ Section Focus Transparency 7 and Master

## Teach

- \_\_\_\_\_ Quick Demo, *TWE* p. 36
- \_\_\_\_\_ Identifying Misconceptions, *TWE* p. 38
- \_\_\_\_\_ Chemistry Journal, *TWE* pp. 36, 40
- \_\_\_\_\_ Teaching Transparency 5 and Master
- \_\_\_\_\_ *Spanish Resources*, 2.3 *TCR*

## Assess

- \_\_\_\_\_ Section Assessment, *SE* p. 42
- \_\_\_\_\_ Check for Understanding, *TWE* p. 42
- \_\_\_\_\_ Reteach, *TWE* p. 42
- \_\_\_\_\_ *Study Guide for Content Mastery*, pp. 10–11 *TCR*

## Enrichment/Application

- \_\_\_\_\_ Extension, *TWE* p. 42
- \_\_\_\_\_ *Cooperative Learning in the Science Classroom*, *TCR*

## Chapter Assessment

- \_\_\_\_\_ Assessment, *TWE* p. 42
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, *TCR*
- \_\_\_\_\_ *Performance Assessment in the Science Classroom*, *TCR*

## Multimedia Options

- \_\_\_\_\_ **Vocabulary PuzzleMaker Software**, Ch. 2
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ Chemistry Web site: [ga.science.glencoe.com](http://ga.science.glencoe.com)

# Representing Data



▶ pages 43–45

▶ 2 1/2 class session(s)

## Section Objectives

- Create graphs to reveal patterns in data.
- Interpret graphs.

## National Science Content Standards

UCP.1, UCP.3; A.1, A.2; B.2; E.1, E.2; F.1; G.2

## Georgia QCC

1, 1.2, 2, 2.1, 3.1, 4

## Focus

\_\_\_\_\_ Section Focus Transparency 8 and Master

## Teach

- \_\_\_\_\_ Problem-Solving Lab, *SE* p. 44
- \_\_\_\_\_ ChemLab 2, *SE* pp. 46–47
- \_\_\_\_\_ How It Works, *SE* p. 48
- \_\_\_\_\_ Chemistry Journal, *TWE* p. 43
- \_\_\_\_\_ *ChemLab and MiniLab Worksheets*, pp. 6–8 *TCR*
- \_\_\_\_\_ *Laboratory Manual*, pp. 9–16 *TCR*
- \_\_\_\_\_ Teaching Transparency 6 and Master
- \_\_\_\_\_ *Spanish Resources*, 2.4 *TCR*

## Assess

- \_\_\_\_\_ Section Assessment, *SE* p. 45
- \_\_\_\_\_ Check for Understanding, *TWE* p. 45
- \_\_\_\_\_ Reteach, *TWE* p. 45
- \_\_\_\_\_ *Study Guide for Content Mastery*, p. 12 *TCR*
- \_\_\_\_\_ Math Skills Transparency 1 and Master

\_\_\_\_\_ *Reviewing Chemistry: Preparing for the Georgia High School Graduation Test*, *TCR*

## Enrichment/Application

- \_\_\_\_\_ Extension, *TWE* p. 45
- \_\_\_\_\_ *Challenge Problems*, p. 2 *TCR*
- \_\_\_\_\_ *Supplemental Problems*, pp. 1–2 *TCR*
- \_\_\_\_\_ *Cooperative Learning in the Science Classroom*, *TCR*

## Chapter Assessment

- \_\_\_\_\_ Chapter 2 Assessment, *SE* pp. 50–53
- \_\_\_\_\_ Assessment, *TWE* pp. 44, 45, 47
- \_\_\_\_\_ *Chapter Assessment*, pp. 7–12 *TCR*
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, *TCR*
- \_\_\_\_\_ *Performance Assessment in the Science Classroom*, *TCR*

## Multimedia Options

- \_\_\_\_\_ **Vocabulary PuzzleMaker Software**, Ch. 2
- \_\_\_\_\_ **MindJogger Videoquizzes**, Ch. 2
- \_\_\_\_\_ **TestCheck Software**, Ch. 2
- \_\_\_\_\_ **Chemistry Interactive CD-ROM**, Chapter 2 quiz
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ Chemistry Web site: [ga.science.glencoe.com](http://ga.science.glencoe.com)