Science

# PLATO® Chemistry Series

**Grade Level:** 8–12
**Target Audience:** High School/Adult
**Audio Support:** Yes

## Product Features

- Over 650 discrete learning objectives
- Animation, narrations and interaction demonstrate chemistry concepts
- Audio support in the tutorial and mastery test
- Supplemented by offline study guides, quizzes, and exams
- Interactive glossary defines terms and models proper pronunciation
- Simple and consistent navigation throughout each module

## Product Benefits

- Follows National Science Foundation guidelines
- Allows learner to complete lessons sequentially or select topics in desired order
- Provides interactive tutorials to reinforce subject material
- Provides feedback in the mastery test and graphic representation of results
- Enriches instruction with real life, problem solving scenarios

## Online Tools

Periodic Table of Elements—complete list of element symbols in an interactive chart
Glossary—models pronunciation of science terms and provides definitions

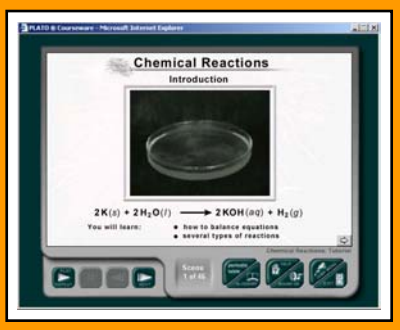
## Menu Icons

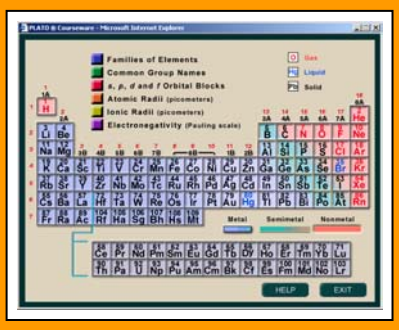
Play/Repeat—allows learner to play and repeat audio in a scene
Pause—allows learner to pause audio in a scene
Previous—allows learner to return to the previous scene
Next—allows learner to proceed to the next scene
Help—provides an explanation of course features and menu icons
Sound On/Off—allows learner to turn audio on or off
Jump Menu—allows learner to view a specific topic rather than advance sequentially
Exit—allows learner to stop and exit the program

## Reference Materials (Refer to PLATO Documentation CD)

PLATO Curriculum Guide—Chemistry
PLATO Curriculum Guide—Chemistry—Module Components (study guides, quizzes, comprehensive exams, answer keys, and glossary)

PLATO LEARNING™


## Getting Started

- Refer to the Curriculum Guide—Chemistry to review the menu icons and identify concepts addressed in the courseware modules.
- Become familiar with the module components included in the curriculum guides.
- Select and preview a courseware module aligned to classroom instruction.
- Demonstrate a courseware module to the learners as a whole group using a projector.

## Lesson Progression

- Tutorial—introduces and teaches chemistry concepts (not scored).
- Application—reinforces chemistry concepts covered in the tutorial (scored).
- Mastery test—includes randomly generated questions, provides immediate feedback, and shows graphic representations of results (scored).

## Assessment

- Use the mastery tests to determine placement within the courseware module.
- Use quizzes in the curriculum guide as a pretest to identify instructional needs.
- Use the comprehensive exams in the curriculum guide as a posttest to measure proficiency.
- Use a state or local assessment to further identify and prioritize instructional needs.

## Implementation Strategies

- Begin with the tutorial as a whole-group activity to introduce chemistry concepts.
- Encourage self-paced learning by directing learners to complete the application section independently.
- Encourage the learner to formulate questions about the chemistry concepts presented in the study guides.
- Target individual learner needs by assigning selected courseware modules for remediation, reinforcement, and extension.

## Evaluation

- Design and formulate an evaluation plan that integrates the use of offline quizzes, comprehensive exams, and online mastery tests.
- Create science portfolios to further evaluate application of concepts mastered.
- Generate reports to measure student mastery and identify instructional needs.
- Evaluate and discuss report data with learner to determine the next steps.

## Extension Exercises

- Use the study guides in the curriculum guide as a supplemental reading assignment.
- Search for web sites that provide additional information related to the courseware modules.
- Create a customized learning path that includes web sites to further enrich learning.
- Gather and organize chemistry projects to build a science portfolio.

Curriculum Structure

*Curriculum*

↓

Chemistry Series

*Course*

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Chemical Transformations

*Module*

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Chemical Reactions

*Tutorial*

*Application*

*Mastery Test*

For more information, please call 800.44.PLATO or visit www.plato.com

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