Chemistry: A Guided Inquiry, 7th Edition
Richard S. Moog, John J. Farrell

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DESCRIPTION

In the newly updated 7th Edition, Chemistry: A Guided Inquiry continues to follow the underlying principles developed by years of extensive research on how students learn, and draws on testing by those using the POGIL methodology. This text follows the principles of inquiry-based learning and correspondingly emphasizes underlying chemistry concepts and the reasoning behind them. This text provides an approach that follows modern cognitive learning principles by having students learn how to create knowledge based on experimental data and how to test that knowledge.

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NEW TO EDITION

• Many activities now begin with a “WARM-UP” section that students may complete prior to class.

• Reorganized average valence electron energies (AVEE), electronegativity (EN), covalent bonding, and dipole moments activities.

• Prompts to specifically encourage group interaction and other process skills have been inserted into many activities.

FEATURES

Moog and Farrell’s Chemistry: A Guided Inquiry, 7th Edition contains many extensive changes inspired and informed by research performed in POGIL classrooms over the past several years and by recent insights gained from cognitive science.

• “Explain your reasoning” Critical Thinking Questions

• Restructured prose that increases readability and comprehension of the text.

• Exercises and Problems have been moved to the end of each activity, eliminating the distraction of Exercises in the middle of the activity.

• Updated Critical Thinking Questions that prompt students to recall important concepts that were developed in earlier activities.

• Increased attention has been paid to incorporating a learning cycle of Exploration, Concept Invention and Term Introduction, and Application within each activity.

• Continued emphasis on interpreting data and generating and testing hypotheses.

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