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Organic Chemistry A Guided Inquiry

Andrei Straumanis holds a B.A. from Oberlin College, and a Ph.D. in organic chemistry from Stanford University, where he worked with Professor Jim Collman on synthetic mimics of the active sites of cytochrome c and cytochrome p450.He is a co-founder of The POGIL Project, and until 2019 served as Consulting Scientist and Executive Editor for that organization, which is dedicated to supporting ...

Add the power of guided inquiry to your course without giving up lecture with ORGANIC CHEMISTRY: A GUIDED INQUIRY FOR RECITATION, Volume I, International Edition. Slim and affordable, the book covers key Organic 1 topics using POGIL (Process Oriented Guided Inquiry Learning), a proven teaching method that increases learning in organic chemistry. Containing everything you need to energize your teaching assistants and students during supplemental sessions, the workbook includes once-a-week, student-friendly activities that are designed for supplemental sessions, but can also be used in lab, for homework, or as the basis for a hybrid POGIL-lecture approach.

Designed to encourage active and collaborative learning in the organic chemistry classroom, this text is a collection of group activities (ChemActivities) that can accompany any organic chemistry text. These ChemActivities teach students how to think like scientists, rather than simply memorizing important conclusions arrived at by great scientists of the past. Clearly labeled scientific "Models" appear throughout each ChemActivity in bulleted and illustrated formats. These explanations of scientific theories help students develop their conceptual understanding of the material. "Critical-Thinking Questions" appear after each "Model" and ask students to explore ideas in a number of ways. Students might be required to explain a concept, draw a molecule, complete a table, or write an explanation about a topic to another student.

Includes worked-out solutions to all Skill Development Exercises.

Process Oriented Guided Inquiry Learning (POGIL) is a method of instruction where each student takes an active role in the classroom. The activities contained in this collection are specially designed guided inquiry activities intended for the student to complete during class while working with a small group of peers. Each activity introduces essential organic chemistry content in a model that contains examples, experimental data, reactions, or other important information. Each model is followed by a series of questions designed to lead the student through the thought processes that will result in the development of critical organic chemistry concepts. At the end of each activity are additional questions, which will generally be completed outside of class time and are more similar to questions that might appear on tests. Before each class, students should ensure that they are familiar with the prior knowledge that is listed at the beginning of every activity. These POGIL Organic Chemistry activities were written to cover most of the important concepts for a two semester organic chemistry sequence. The activities are grouped into organic 1 and organic 2, although that might vary from class to class depending on the textbook used. Some concepts do not have an activity, particularly if the concept is of narrow focus. The following are some ideas for introducing additional concepts that do not have an activity. • Assign the topic as homework/reading outside of class. • Mini-lecture on the concept. • Prepare a "mini-activity" on the concept to be done in groups during class. Usually a miniactivity consists of one model and questions on a single slide.

The ChemActivities found in General, Organic, andBiological Chemistry: A Guided Inquiry use theclassroom guided inquiry approach and provide an excellentaccompaniment to any GOB one- or two-semester text. Designed tosupport Process Oriented Guided Inquiry Learning (POGIL), thesematerials provide a variety of ways to promote a student-focused,active classroom that range from cooperative learning to activestudent participation in a more traditional setting.

Add the power of guided inquiry to your course without giving up lecture with ORGANIC CHEMISTRY: A GUIDED INQUIRY FOR RECITATION, Volume I. Slim and affordable, the book covers key Organic 1 topics using POGIL (Process Oriented Guided Inquiry Learning), a proven teaching method that increases learning in organic chemistry. Containing everything you need to energize your teaching assistants and students during supplemental sessions, the workbook includes once-a-week, student-friendly activities that are designed for supplemental sessions, but can also be used in lab, for homework, or as the basis for a hybrid POGIL-lecture approach. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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The ChemActivities found in Introductory Chemistry:A Guided Inquiry use the classroom guided inquiry approach and provide an excellent accompaniment to any one semester Introductory text. Designed to support Process Oriented Guided Inquiry Learning (POGIL), these materials provide a variety of ways to promote a student-focused, active classroom that range from cooperative learning to active student participation in a more traditional setting.

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