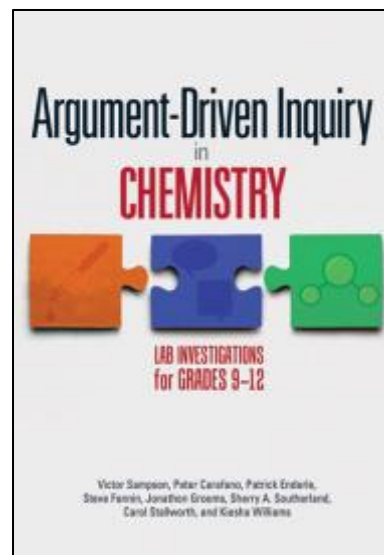


Argument-Driven Inquiry in Chemistry: Lab Investigations for Grades 9–12

Author(s): Victor Sampson, Peter Carafano, Patrick Enderle, Steve Fannin, Jonathon Grooms, Sherry A. Southerland, Carol Stallworth & Kiesha Williams

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Summary

Are you interested in using argument-driven inquiry for secondary school lab instruction but just aren't sure how to do it? You are not alone. *Argument-Driven Inquiry in Chemistry* will provide you with the information and instructional materials you need to start using this method right away. This book is a one-stop source of expertise, advice and investigations to help chemistry students work the way scientists do.

The book is divided into two basic parts:

1. An introduction to the stages of argument-driven inquiry – from investigation design, data analysis, and argument development and evaluation to double-blind peer review and report revision.
2. A well-organised series of 30 field-tested labs designed to be a more scientifically authentic approach to instruction than traditional laboratory activities. The labs cover a broad range of topics related to chemical reactions and the structure and properties of matter. You can use the introduction labs to have students try out a theory, law or unifying concept.

Because the authors are veteran teachers, they designed *Argument-Driven Inquiry in Chemistry* to be easy to use and aligned with today's standards. The investigations will help your students learn the core ideas, crosscutting concepts, and science and engineering practices found in the Next Generation Science Standards.

Many of today's teachers – like you – want to find new ways to engage students in scientific practices and help students learn more from lab activities. *Argument-Driven Inquiry in Chemistry* does all this even as it gives students the chance to practise reading, writing, speaking and using maths in the context of science.

Other Resources

- *Student Lab Manual for Argument-Driven Inquiry in Chemistry: Lab Investigations for Grades 9–12* (NST0508)