



# Teaching Science as Investigations: Modeling Inquiry Through Learning Cycle Lessons

*Richard H. Moyer, Jay K. Hackett Professor Emeritus, Susan A. Everett*

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Written with reform in mind, this book combines the teaching and learning of science by integrating pedagogy within science content investigations. The first chapter in each unit includes investigations appropriate for K-4 learners and the subsequent chapters present investigations for Grades 5-8. Each investigation has one student version that can be reproduced for classroom use and one teacher version that includes the expanded content needed to teach the investigation in a constructivist way. Aligned with the NSES science content standards, the investigations are sequenced to build conceptual development of science concepts and are supported by the 5E learning cycle lesson format.

## FEATURES:

**Foundational chapter** presents research on how children learn - Chapter 1.

**Investigations supported by the 5E learning cycle lesson format** help professors model for their students how to teach science as inquiry in the classroom.

**Physical, Life, and Earth/Space concepts** each presented as a Unit, for a total of three.

**Four learning cycle lessons, or investigations** introduce readers to **developmentally appropriate** inquiry learning. The first chapter in each unit includes investigations appropriate for K-4 learners and the subsequent 3 chapters present sequential, conceptual investigations for Grades 5-8.

**Teaching Tips** accompany each investigation to provide practical teaching suggestions for new teachers as they implement lessons for the first time.

**Essential Teaching Strategies** are presented during each investigation to support new teachers with instructional methodologies including the learning cycle, assessment, materials management, integrating math or reading, questioning strategies, and more.

**Lessons/investigations are aligned with the NSES science content standards** and are sequenced to build conceptual development of science concepts.

**Immediate application to the classroom** - Each investigation has one student version that can be reproduced for classroom use and one expanded teacher version that includes all the content and pedagogy needed to teach the investigation in a constructivist way.

**Learn to develop additional 5E lesson plans/investigations** - through reader-friendly guidelines ensuring that any science activity readers find on the web or in a science book is set up as a valid scientific inquiry with an explorable question.

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**Jennifer Bell:**

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