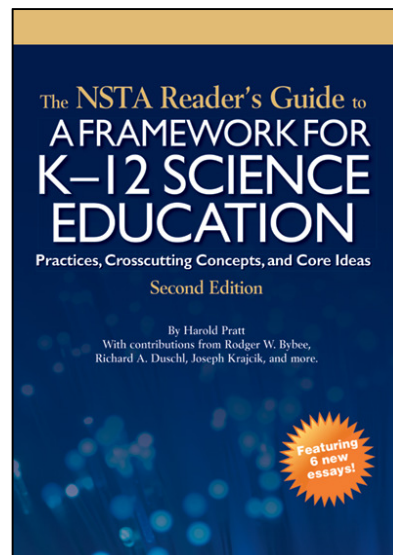


The NSTA Reader's Guide to A Framework for K–12 Science Education, Second Edition: Practices, Crosscutting Concepts, and Core Ideas

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Date Available: 18 October 2016
ISBN: 978 1 76001 053 9
Code/SKU: NST0539
RRP: \$29.95
Format/Page No.: B5, 154 pages
Year Level: Teachers and Administrators
Focus Area: Curriculum, Professional
Development
Key Learning Area: Science



Summary

A Framework for K–12 Science Education provides a broad set of learning expectations for students as they study science and engineering throughout the K–12 years. The *Framework* guides the writers of the *Next Generation Science Standards* (NGSS); will influence curriculum, assessment, and teacher professional development decisions for years to come; and ultimately will help inspire new generations of science and engineering professionals and scientifically literate citizens.

The handy *Reader's Guide* unpacks the three key dimensions of the *Framework* – scientific and engineering practices, crosscutting concepts, and core ideas in each specific discipline – allowing teachers, administrators, curriculum developers, university professors, and others to more easily grasp how the *NGSS* differ from previous standards. Harold Pratt, a career science educator who was deeply involved in the development of the *National Science Education Standards*, offers the following for each chapter of the *Framework*:

- An overview with a brief synopsis of key ideas
- An analysis of what is similar to and what is different from the *NSES*
- A suggested action to help readers understand and start preparing for the *NGSS*

This second edition includes 10 essays by key leaders in science education, each further explaining the *Framework*. Along with discussions on topics such as scientific and engineering practices, engineering and technology core ideas, and connections in math, new essays examine the *NGSS* in relation to life, physical, and Earth and space science.

This primer is a critical companion to the *Framework* for science educators nationwide as they incorporate the *NGSS* into their teaching of science and engineering.

Other Resources

- *The NSTA Reader's Guide to the Next Generation Science Standards* (NST0522)
- *Translating the NGSS for Classroom Instruction* (NST0546)
- *Introducing Teachers and Administrators to the NGSS: A Professional Development Facilitator's Guide* (NST9204)