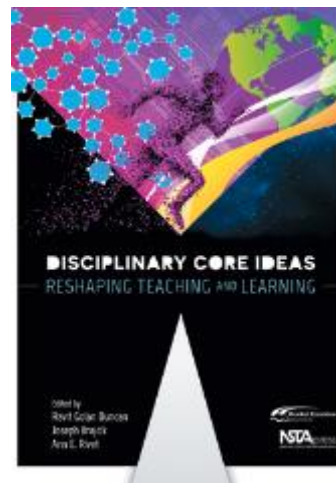


Disciplinary Core Ideas: Reshaping Teaching and Learning

Author(s): Ravit Golan Duncan, Joseph Krajcik, Ann E. Rivet

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Summary

Like all enthusiastic teachers, you want your students to see the connections between important science concepts so they can grasp how the world works now—and maybe even make it work better in the future. But how exactly do you help them learn and apply these core ideas?

Just as its subtitle says, this book aims to reshape your approach to teaching and your students' way of learning. Building on the foundation provided by *A Framework for K-12 Science Education*, which informed the development of the *Next Generation Science Standards*, the book's four sections cover these broad areas:

- Physical Science Core Ideas: Explain phenomena as diverse as why water freezes and how information can be sent around the world wirelessly.
- Life Science Core Ideas: Explore phenomena such as why children look similar but not identical to their parents and how human behaviour affects global ecosystems.
- Earth and Space Science Core Ideas: Focus on complex interactions in the Earth system and examine phenomena as varied as the big bang and global climate change.
- Engineering, Technology, and Applications of Science Core Ideas: Highlight engineering design and how it can contribute innovative solutions to society's problems.

Disciplinary Core Ideas can make your science lessons more coherent and memorable, regardless of what subject matter you cover and what grade you teach. Think of it as a conceptual tool kit you can use to help your students learn important and useful science now—and continue learning throughout their lives.

Other Resources

- *The NSTA Readers Guide to A Framework for K-12 Science Education, Second Edition: Practices, Crosscutting Concepts, and Core Ideas* (NST0539)
- *Translating the NGSS for Classroom Instruction* (NST0546)
- *Science for the Next Generations: Preparing for the New Standards* (NST0553)