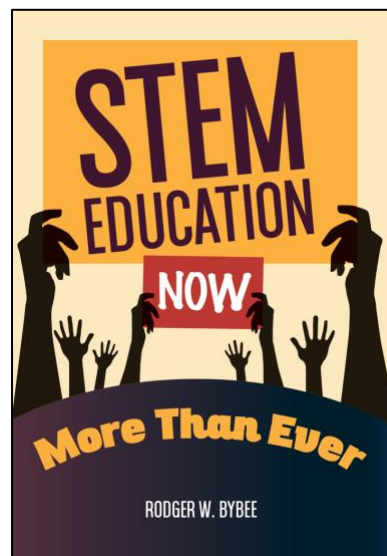


STEM Education Now More Than Ever

Author(s): Rodger W. Bybee

Date Available: June 2018
ISBN: 978 1 76056 758 3
Code/SKU: NST7583
RRP: \$39.95
Format/Page No.: A4, 172 pages
Year Level: Teachers and Administrators
Focus Area: Professional Development
Key Learning Area: Cross-Curricular,
Mathematics, Science,
Technologies



Summary

Rodger W. Bybee's 2012 book *The Case for STEM Education* was a call to confront pressing challenges and opportunities in science classrooms. This new book is a call to action at a time when the integrity of STEM disciplines is under assault. Now more than ever, he writes, society needs to recognise the place of STEM education in the cultural, political and ethical life of students as future citizens. But to make this possible, science educators must address important questions that will guide the development of their programs and practices throughout the 21st century.

STEM Education Now More Than Ever is organised into four wide-ranging, thought-provoking sections:

- Part 1 asserts the need for a new and urgent case for STEM education in light of the 2016 US presidential election and challenges voiced regarding science's validity.
- Part 2 discusses the Enlightenment, the US Constitution, democracy and citizenship as reminders of the effects of STEM disciplines on Western foundational ideas and values.
- Part 3 moves beyond contemporary politics to centre on the purposes of STEM education and provide recommendations for translating those purposes into practical improvements. Bybee suggests newer, faster ways to help teachers develop relevant STEM units for their classes.
- Part 4 concludes the book, answering questions raised in prior chapters and asserting the need for classroom teachers and the STEM education community to be strong leaders.

Having been in science education for more than 50 years and written six NSTA Press books, Bybee draws on past themes that readers may recognise. He explains that "the ideas have a new context and serve as timely applications for the challenges STEM teachers and the community face." *STEM Education Now More Than Ever* is his positive and constructive response for the STEM education community as it navigates these unconventional and uncertain years.

Other Resources

- *The Case for STEM Education: Challenges and Opportunities* (NST0560)
- *Designing Meaningful STEM Lessons* (NST7552)