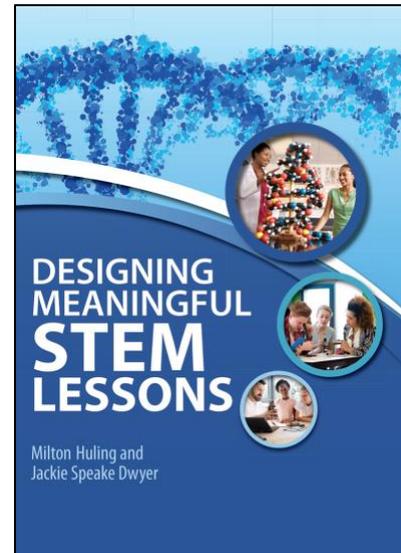


Designing Meaningful STEM Lessons

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Summary

Here's the help you need to ensure that your STEM-related lessons are much more than just cool projects. As the title says, this book shows how to make STEM meaningful for teaching and learning science. Best of all for busy teachers, it provides examples that are easy to follow, can be used with existing science lessons and can help your students gain content knowledge.

The book introduces a conceptual framework that keeps science front and centre as you embed engineering, technology and science applications in your lessons – similar to how you would embed literacy skills. *Designing Meaningful STEM Lessons* does the following:

- Provides 13 ready-to-use lessons in physical science, life science, and Earth and space science.
- Retains the cool factor through lessons with titles such as “Cell-fie” and “Aircraft Catapult”.
- Correlates with *A Framework for K–12 Science Education*, takes a constructivist approach, and operates within the 5E instructional model.

The authors are veteran science educators who have honed their framework through extensive state and district training sessions. They know that for teachers who want to deliver rigorous, high-quality instruction, “the process of implementing STEM curriculum within the classroom is quite nebulous on the best of days.” By helping you think about STEM as a “process and not a thing,” *Designing Meaningful STEM Lessons* offers clear-cut ways to bring STEM learning to life in your classroom, easily and effectively.

Other Resources

- *STEM Education Now More Than Ever* (NST7583)
- *Exemplary STEM Programs: Designs for Success* (NST9112)
- *Exemplary Science for Building Interest in STEM Careers* (NST0591)
- *20 Strategies for STEM Instruction* (LSM9990)
- *Everyday Engineering: Putting the E in STEM Teaching and Learning* (NST0577)
- *The Case for STEM Education: Challenges and Opportunities* (NST0560)