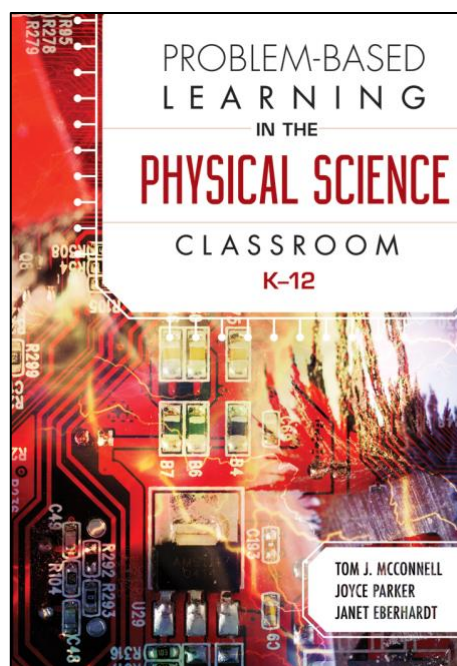


Problem-Based Learning in the Physical Science Classroom, K–12

Author(s): Tom J. McConnell, Joyce Parker & Janet Eberhardt

Date Available: January 2019
ISBN: 978 1 76056 757 6
Code/SKU: NST7576
RRP: \$49.95
Format/Page No.: A4, 286 pages
Year Level: Teachers and Administrators
Focus Area: Activities and Exercises, Classroom Practice and Direct Instruction, Professional Development
Key Learning Area: Science



Summary

Bring new energy to both your teaching and your physical science students with problem-based learning (PBL). This all-in-one guide to PBL shows you how to use scenarios that evoke real-world science in all its messy, thought-provoking glory. The creativity-igniting scenarios lead K–12 students to get involved in analysing problems, posing questions and hypotheses, and constructing solutions.

This book also has a strong practical bent. In addition to complete lesson plans that support the Next Generation science Standards, it offers extensive examples, instructions and tips. The 14 developmentally appropriate lessons cover speed, constant motion, acceleration, forces and motion, energy transformation, and electricity and magnetism. The lessons' inviting titles include “Cartoon Cliff Escape” and “Rube Goldberg Machine”.

Problem-Based Learning in the Physical Science Classroom, K–12 is the third volume in NSTA's PBL series, which also covers Earth and space science and life science. The authors not only facilitated the National Science Foundation-funded PBL Project for Teachers but also refined the problems in their own teaching. In addition to igniting your creativity, you can use this book's problems and strategies to help your students develop a deeper understanding of science concepts and how to apply them.

Other Resources

- *Problem-Based Learning in the Life Science Classroom, K–12* (NST0492)
- *Problem-Based Learning in the Earth and Space Science Classroom, K–12* (NST4025)
- *Everyday Problem-Based Learning: Quick Projects to Build Problem-Solving Fluency* (117057)