Problem-Based Learning in the Earth and Space Science Classroom, K–12

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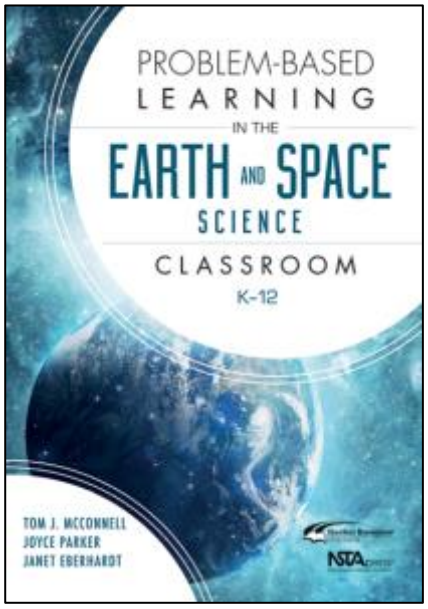

Summary

If you've ever asked yourself whether problem-based learning (PBL) can bring new life to both your teaching and your students' learning, here's your answer: yes. This all-in-one guide will help you to engage your students in scenarios that represent real-world science in all its messy, thought-provoking glory. The scenarios will prompt F–12 students to work collaboratively on analysing problems, asking questions, posing hypotheses and constructing solutions.

This book is both informative and practical. In addition to complete lesson plans that support curriculum standards, the book offers extensive examples, instructions and tips. The lessons cover four categories: Earth's landforms and water, the rock cycle and plate tectonics, weather and astronomy.

Just like *Problem-Based Learning in the Life Science Classroom, K–12*, this book provides you with what many think is the trickiest part of PBL: rich, authentic problems. The authors not only facilitated the National Science Foundation-funded PBL Project for Teachers but also perfected the problems in their own teaching. You can be confident that the problems and the teaching methods are teacher tested and approved. Let this book ignite your creativity through strategies that will help 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)
- *Uncovering Student Ideas in Earth and Space Science: 32 New Formative Assessment Probes* (NST7564)
- *Solar Science: Exploring Sunspots, Seasons, Eclipses, and More* (NST8948)
- *Extreme Science: From Nano to Galactic* (NST0607)
- *Space Dictionary for Kids: The Everything Guide for Kids Who Love Space* (PRU7243)