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

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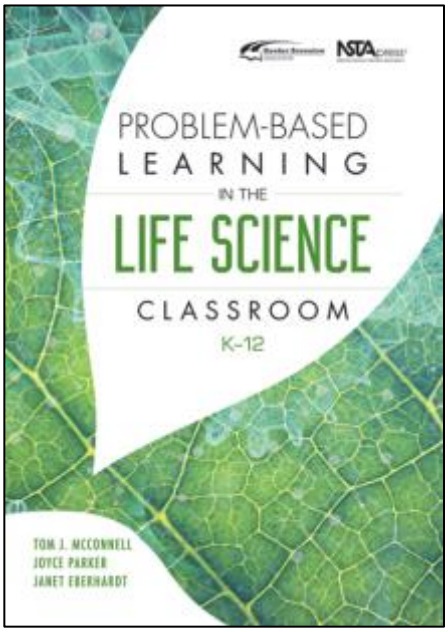

Summary

Are you intrigued by problem-based learning (PBL)? This book will help you start using this approach. Authors Tom J. McConnell, Joyce Parker and Janet Eberhardt show you how to engage students with scenarios that represent real-world science in all its messy, thought-provoking glory. The creativity-igniting scenarios will prompt F–12 learners to work collaboratively on analysing problems, asking questions, posing hypotheses, finding needed information and then constructing a proposed solution.

In addition to complete lesson plans that support science standards, the book offers extensive examples, instructions and tips. The lessons cover four categories: life cycles, ecology, genetics and cellular metabolism.

But this guide doesn't stop at the why, how and when of implementing PBL. It also provides you with what many think is the trickiest part of the approach: rich, authentic problems. The authors facilitated the National Science Foundation-funded PRL Project for Teachers and used the problems in their own science classrooms, so you can be confident that the method and the problems are teacher-tested and approved.

Other Resources

- *Uncovering Student Ideas in Life Science, Volume 1: 25 New Formative Assessment Probes* (NST1123)
- *Argument-Driven Inquiry in Life Science: Lab Investigations for Grades 6–8* (NST9020)
- *Student Lab Manual for Argument-Driven Inquiry in Life Science: Lab Investigations for Grades 6–8* (NST0515)