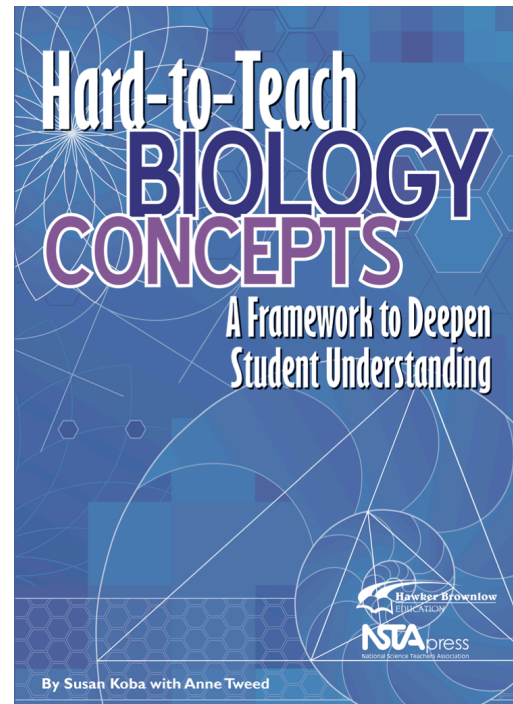


# Hard-to-Teach Biology Concepts: A Framework to Deepen Student Understanding

Authors: Susan Koba with Anne Tweed

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## Summary:

This well-researched book provides a valuable instructional framework for high school biology teachers as they tackle five particularly challenging concepts in their classrooms—meiosis, photosynthesis, natural selection, proteins and genes, and environmental systems and human impact. The author counsels educators first to identify students' prior conceptions, especially misconceptions, related to the concept being taught, then to select teaching strategies that best dispel the misunderstandings and promote the greatest student learning.

The book is not a prescribed set of lessons plans, rather, it presents a framework for lesson planning, shares appropriate approaches for developing student understanding, and provides opportunities to reflect and apply those approaches to the five hard-to-teach topics. More than 300 teacher resources are listed.

## Supporting Resources:

- *Designing Effective Science Instruction: What Works In Science Classrooms* (NST0782)
- *Teaching Students to Think Like Scientists* (SOT1239)
- *Real Life Science: Biology* (WAL8747)
- *iLearn iTeach: STEM Life Science Aps for the iPad* (VIS7403)
- *Inside the Black Box: Science* (GLA1338)
- *What Principals Need to Know about Teaching and Learning Science* (SOT6291)