

# Take-Home Physics: 65 High Impact, Low-Cost Labs

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## Summary

*Take-Home Physics* is an excellent resource for secondary school physics teachers who want to devote more classroom time to complex concepts while challenging their students with hands-on homework assignments. This volume presents 65 take-home physics labs that use ordinary household items or other inexpensive materials to tackle motion and kinematics; forces and energy; waves, sound and light; and electricity and magnetism in a safe and engaging way.

The result: Students learn background knowledge, reinforce basic process skills, practice discovery and bridge classroom learning with real-world application – all while getting excited about homework. Plus, teachers free up valuable instruction time for new and more difficult material. They can also integrate science and literacy by requiring the use of lab notebooks with formal write-ups.

A materials list (e.g. coins, empty CD cases, bendable straws, liquid soap and thumbtacks) and safety notes – as well as both student activity pages and teacher notes – are included.

## Other Resources

- *Take-Home Chemistry: 50 Low-Cost Activities to Extend Classroom Learning* (NST4797)
- *Using Physics Gadgets & Gizmos, Grades 9-12: Phenomenon-Based Learning* (NST9242)
- *Everyday Physical Science Mysteries: Stories for Inquiry-Based Science Teaching* (NST0874)
- *The Restaurant at the Beginning of the Universe: Exploring the Wonderment of the World through Physics* (1273)