

SCIENCE SCOPE

CONTENIDO

VOLUME 34 No. 1, SEPTEMBER 2010

ACTION RESEARCH

- 24** **Making the Case for Action Research.**
Discover what teachers find most valuable about research and learn some tips for putting your research into action.
Wendy Saul with J. Carrie Launius.
- 30** **Uncovering Student Thinking in Science Through CTS Action Research.**
Learn how to combine a curriculum topic study with formative assessment probes to create a revealing form of action research.
Joyce Tugel and Ingrid Porter.
- 37** **The Benefits of Formative Assessments for Teaching and Learning.**
Examine the results of an action research project to learn how it improved the teaching in learning in one school district.
Nora Bakula.
- 44** **I Want to Be Like... Middle school Students' Identification with Scientists on Television.**
Explore how you can use the media's powerful influence over students to improve students' perceptions of scientists.
Lisa Ryan and Jocelyn Steinke.

Departments

- 1** **Editor's Roundtable.**
Need an answer? Research it yourself!
- 6** **Presidential Message.**
Imagine and invent: Create a great future.
- 8** **Letters.**
Old school skills?
- 10** **Guest Editorial.**
▪ Action Research: Expanding the role of classroom teachers to inquirers and researchers.
- 16** **Teacher's Toolkit.**
How-to strategies and practical advice for teachers.

Misconceptions in the science classroom.

52

Science Sampler.

From speaking to writing in the structured English immersion classroom.

- Assessing student motivation, performance, and engagement with an action research project.

Motivating middle school students to monitor and assess their learning.

66

Call for papers.

Mysteries myths and Whodunits.

Botany.

68

Scope on Safety.

Creating a safer science lab and classroom.

Negligence — Some things you can't afford to ignore.

70

Everyday Engineering.

An inside look at the marvels of engineering in everyday life.

An absorbing look at terry-cloth towels.

76

Scope on the Skies.

Astronomy throughout the year.

The law of location.

80

NSTA Recommends

Reviews of the latest resources

100

Mystery Photo

Can you identify this image?

ON THE COVER

Research handed down from the ivory tower can often seem abstract and hard to relate to your classroom. If you're looking for something more relevant and accessible, consider conducting your own classroom-based research with the help of the action-research lessons described in this issue.

COVER designed by Joseph Butera.

Images provided by iStock.