THE SCIENCE TEACHER

CONTENIDO

VOLUME 77 No. 8 NOVEMBER 2010

FEACTURES ON THE THEME

26	A Template for Open Inquiry. Using questions to encourage and support inquiry in Earth and space science. Ronald S. Hermann and Rommel J. Miranda.
32	The Inquiry Matrix. A tool for assessing and planning in quiry in biology and beyond. <i>Julie Grady</i> .
38	Model-Based Inquiry. A bouyant force module for high school physics classes. <i>Drew Neilson, Todd Campbell, and Benjamin Allred.</i>
44	The Inquiry Flame. Scaffolding for scientific inquiry through experimental desing. <i>Richard Pardo and Jennifer Parker.</i>
50	Sugar-Cube Science. An economical inquiry experiment for high school chemistry. Jennifer Smith.
55	Exploring Osmisis and Difussion in Cells. A guided-inquiry activity for biology classes, developed through the lesson.study process. <i>Lauren Maguire, Lindsay Myerowitz, and Victor Sampson.</i>
	DEPARTAMENTS
6	Editor's Corner Inquity Minds
8	Safer Science Computer Safety in the Lab.
10	Science 2.0 Instant Inquiry.
12	The Green Room The Green Chemistry Laboratory.

14 The New Teacher's Toolbox.

When Silence Is Not Golden.

- Headline Science
 New Sea Slugs Colorado River Flow City Living Earthquake simulations Horned Dinosaurs.
- 31 Call for Papers
- 61 NSTA Conferences
- 68 Idea Bank

The Gulf Oil Spill.

- 72 **Career of the Month** An Interview With Applied Chemical Technology Professional John Engelman.
- 76 NSTA Recommends
- 84 Index of Advertisers

COVER

Inquiry holds an important place in science instruction. Though challenging, it allows students to study the world the way scientists do. This issue of The Science Teacher provices a variety of ideas for incorporating in quiry in your classroom — from a guided-inquiry lesson about osmosis and diffusion to a self-designed lab in which students determine the fastest way to disoolce a suger cube in water.