

Mathematics/Science WEBLINKS

IMPLEMENTING TECHNOLOGY: EISENHOWER NATIONAL CLEARINGHOUSE FOR MATHEMATICS AND SCIENCE EDUCATION (ENC)

www.enc.org/topics/edtech

The "Implementing Technology" section of the ENC website provides resources for using technology to enhance education, including information about online projects in which both students and teachers have participated.

classrooms@work/tools@hand

www.netc.org/classrooms@work

Developed by the Northwest Educational Technology Consortium, this site features real K-12 classrooms and three technology-rich learning projects that integrate mathematics, science, social studies, and language arts.

ILLUMINATIONS

illuminations.nctm.org

This site, created by the National Council of Teachers of Mathematics, provides online information and activities to support and demonstrate how *Principles and Standards for School Mathematics*, the new mathematics standards, can be applied in classrooms. The site is divided into four grade bands (pre-K to 2, 3-5, 6-8, 9-12) and an additional area that cuts across grade levels pre-K to 12.

LHS: PLAY

lhs.berkeley.edu/kids

Created by the Lawrence Hall of Science at the University of California, Berkeley, this site offers online and offline activities in math and science for pre-K through grade 5 students. Online programs include computer-animated, interactive games that aim to develop students' factual knowledge and conceptual understanding.

CENTER FOR TECHNOLOGY AND TEACHER EDUCATION

curry.edschool.virginia.edu/teacherlink/content/math

Developed by the Curry School of Education's Center for Technology and Teacher Education at the University of Virginia, this site is designed to help 9th-12th grade teachers increase their knowledge of mathematics and their use of technology in the classroom.



Instructional Media Website Connects Multimedia to Science Curricula

By Thomas W. Speitel
and Thanhtruc T. Nguyen

Teachers need easy access in the classroom to media that enhance and directly link to the curricula they are teaching. The Curriculum Research & Development Group (CRDG) at the University of Hawai'i at Mānoa offers science teachers and students a new free website, the School Web of Instructional Media (SWIM). SWIM is currently a multimedia enhancement of the high school marine science program *The Fluid Earth/The Living Ocean*. Soon SWIM will connect to the middle school *Foundational Approaches in Science Teaching* curriculum.

Contents of the website include video, photographs, sound, and interactive computer programs that can be accessed in the classroom. The media come from CRDG servers, the World Wide Web, and even CDs such as VideoDiscovery's *The Water Planet*.

To bring outstanding media into your classroom, go to www.hawaii.edu/swim and get your password now! ★

SOLUTION TO BRAINTEASER

If we mentally spread the walls of the room shown in the brainteaser, we will get six rectangles as shown ("g" is the gecko and "i" is the insect).

Now we can draw a right triangle.

We know that $AB = 16$, i is 2 feet from the top of the wall, and x is 2 feet from the bottom of the wall. Therefore, the length of ix must be 12.

We also know that $FG = 18$. The horizontal distance from x to the wall $FE = 4$. The horizontal distance from g to the wall $HG = 4$. Therefore, xg must equal 26.

Now we can apply the Pythagorean Theorem $a^2 + b^2 = c^2$ where c is the hypotenuse of a right triangle. In this case let's call it "d" for distance.

Therefore $12^2 + 26^2 = d^2$ $144 + 676 = d^2$ $d = 28.64$ feet

