

HOW TEACHERS USING MODELING INSTRUCTION OBTAINED TECHNOLOGY - and how you can, too!

(Written in 1997; updated in 2008. By Jane Jackson)

The Modeling Instruction Program teaches the *modeling method* to high school physics teachers nationwide. Fifty teachers were involved in the first phase of our Leadership Modeling Workshops for a total of 10 weeks in summers 1995 to 1997. About 150 more were involved in the second and third phase from 1997 to 1999. Although the modeling method can be implemented without any technology, the use of technology makes its implementation far more efficient. This article discusses the experiences that the first 50 teachers had in obtaining technology.

To fully implement the modeling method of physics instruction, one computer workstation is recommended for every three students. A workstation includes several MBL probes and a lab interface. Old or new computers can be used to implement the basic modeling method. *Late-model computers are best, or recent products such as Vernier Software & Technology's LabQuest or Pasco Scientific Company's Xplorer GLX, which don't require computers.*

Our goal is to get computers (or LabQuest or Xplorer GLX) into the physics classroom to be used as scientific tools with appropriate teaching methods. Scientific simulation software and Internet simulations require computers and can improve the ability of physics students to learn by modeling physical phenomena scientifically.

About half of the 50 teachers had no trouble getting all the technology they needed through their school district. **The teacher's involvement in this project, in many cases, was the key to their obtaining the technology.** Their administration and school board were pleased to provide them with new computers and equipment because of research showing the effectiveness of the modeling method.

The other half of the teachers had to look outside their school districts. Some teach in disadvantaged districts; others are in schools where student-used technology in science is not valued. Searching for classroom technology was a new experience for most teachers. Most public school teachers must make their own contacts and write their own grants. A few of our teachers work in private schools that have development directors who help in writing grant proposals. Even so, some of these grant writers write only for the school, and not for the individual teachers' classroom needs.

How teachers obtained technology by nontraditional means:

Here are examples of efforts by the teachers to obtain technology outside usual channels in the school district.

- The quickest success was by a beginning midwestern public school teacher in an affluent district. She wrote a two-page proposal to a local educational foundation and was awarded \$10,000. She gave an oral presentation to the parent-teacher organization and they awarded her \$2500.
- A teacher at a private school made a phone call to a nearby government laboratory and explained his involvement in our reform project. *He was given \$500 on the spot.* He was told that if he had asked earlier in the year he would have been given much more. He was promised funding for the next year.

Modeling Instruction 20unit Answers

Shasha Hu



Modeling Instruction 20unit Answers:

Modeling Instruction 20unit Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Modeling Instruction 20unit Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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