



Integrating Web Technology Into Science Education

Dr. Robert H. Faber – Waller High School

Dr. Orion Ciftja, PVAMU

Dr. Edward Mason, PVAMU

**Dr. A. Anil Kumar, Chair, Physics Dept.,
PVAMU**



One man's "Flight of Fancy"

- Web access for Dr. Faber's students is not a question. Waller HS provides computers in the library and one computer lab that the students may access before school, after school and during regular school hours.

Because of this, a variety of material and information for those science classes is found on the Web. Assignments are made and graded online, information given, lab models explored and even reports to parents are available. For the next few minutes we will exploring some of the aspects of the Web as used at Waller High School.



Accessing the World Wide Web

- **At School – Most of Texas schools are now connected to the web.**
- **At Home – Access has become cost effective for the average home.**
 - **High Speed – service areas are growing rapidly due to high demand**
 - **Dial up – Prices are dropping due to more high speed services becoming available.**



First Stop – The Home Page

- Build an attractive home page for students to visit.
 - Many schools have a little room on the server for you to put up a page.
 - Free services such as Geocities.com provide a place for you with advertising.
 - Teacherweb.com provides space for teachers at a nominal fee with no advertising.



Dr. Faber's Web Page

- <http://teacherweb.com/TX/WallerHighSchool/Faber/index.html>
- Feel free to visit this website at any time.
- Students access the site to pick up assignments, check on grades, check the school calendar, look at their current grades and more.
- Announcement page contains access to other web activities, such as
 - UT Homework Service
 - QuizStar student quiz utility
 - Glencoe Online Textbook



HELP!

- What resources are there for the teacher???



www.4teachers.org

- This site is a super teacher utility. There are a multitude of services available for the teacher to use with the student. The next few pages show the scope of this excellent site.



www.4teachers.org

- [Assign-A-Day](#): Post your own online class calendar with hyperlinks and projects.
- [QuizStar](#): Construct online quizzes that can include multimedia.
- [RubiStar](#): Create customized rubrics in English and Spanish.
- [TrackStar](#): View thousands of online lessons or quickly create your own.



www.4teachers.org

- [Web Worksheet Wizard](#): Make and post a simple Web page within minutes.
- [Project Poster](#): Provide students with a tool to create and post Web pages for projects.
- [NoteStar](#): Assist students with collecting group notes and citations for papers.
- [Think Tank](#): Helps student set up topics for reports. Use alone or with NoteStar.



www.4teachers.org

- [Casa Notes](#): Assemble take-home notes in English and Spanish.
- [PBL Checklists](#): Make custom checklists for multiple projects.
- [R*TEC Teacher](#): Locate top-rated Tracks, WebQuests, and ThinkQuests for your subject.
- [Equity Index](#): Locate resources and tools to help you meet the needs of a diverse classroom.



I just wanted to see what you were doing!!



Not much, as usual !! Back to work!!



University of Texas Homework

- The UT Homework service is a product of the Physics department and especially **Fritz Moore, C. Fred Moore, Herbert Ward, and Dan Ward**
- High school questions are courtesy of Patsy McDonald and her staff.
 - Did galley proofs check for Holt textbook in physics.



University of Texas Homework

- **Student Login Page** Please enter your login name and password, then click on the *Login* button (or press Enter) to log into the UT Homework Service.

Login name:

Password:

[Register yourself in your class](#)

[Students' Instructions](#)

[Auxiliary Information](#)

[Overview](#)

[Send Suggestion or Complaint](#)

Copyright © 1992 - 2004 by Fritz Moore, C. Fred Moore, Herbert Ward, and Dan Ward. All Rights Reserved.





University of Texas Homework

- **Faculty Login Page** Please enter the Unique ID of your class and your instructor/TA password, then click on the *Login* button (or press Enter) to log into the UT Homework Service.

Unique ID:

Password:


Documentation may be viewed via menu item **5.2** after logging in.

Copyright © 1992 - 2004 by Fritz Moore, C. Fred Moore, Herbert Ward, and Dan Ward. All Rights Reserved





University of Texas Homework

- 
- Teacher builds homework, quiz or test assignment.
 - Schedules the assignment open and closing date and time. (yes you can make it due on the weekend!)
 - Student logs in, picks up assignment, completes and enters answers or logs out and returns later.



University of Texas Homework

- Time limit for assignment expires.
- UT computer checks the assignment and makes grade sheet available to instructor
 - Grade sheet tells what student missed as well as reports the answer they submitted.
 - Grade sheet gives score.
 - Negative scoring discourages guessing.





University of Texas Homework

- Correct answers are made available to the student after the time limit expires.
- Every student has the same questions but different numeric values.
- Easy and convenient for the instructor to add additional assessments to grading.

