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MERLOT

Supporting Science Teachers' Success Throughout Their Careers

Jeff Gold
CSU Office of the Chancellor
June 28, 2006



The **M**ultimedia **E**ducational **R**esource for **L**earning & **O**nline **T**eaching is:

- A free and open community for all who use, share, advise & evaluate online teaching and learning materials
- A digital library of online teaching and learning materials that is open for all to use
- A consortium of higher education institutions, professional societies, digital libraries, corporations, and other organizations supporting educational improvement through technology

<http://www.merlot.org/>

Key MERLOT Statistics

- **Visitors**
 - Higher Ed Faculty
 - K-12 teachers
 - Students
 - Workforce development programs
 - Life-long learners
- **Usage**
 - Average 66,000+ users per month
- **Members**
 - 32,862 members, growing at 900 per month
- **Materials**
 - 13,799 catalogued materials, with 1,938 peer reviews

Browsing MERLOT

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Highlights

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Learn about the MERLOT project

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Recognizing exemplary materials

[MERLOT Conferences](#)
Yearly International Conferences

[Peer Review Process](#)
How materials are reviewed

[Assignments](#)
Learn more about assignments

[Recent Additions](#)
The newest materials in MERLOT

Services

[Federated Search](#)
Search multiple digital libraries

MERLOT is a free and open resource designed primarily for faculty and students of higher education. Links to online learning materials are collected here along with annotations such as peer reviews and assignments.

You are welcome to browse the collection or search for materials. Members may add materials, comments and assignments to MERLOT. [Membership](#) is free.

What would you like to know?

- [What will I see when I look at a learning material?](#)
- [What can I do with the materials I find in MERLOT?](#)
- [Who contributes the materials to MERLOT?](#)
- [Who oversees and maintains MERLOT?](#)

The MERLOT Community

The MERLOT community is made up of individual members and higher education, institutional, and corporate partners and affiliates dedicated to improving education. Individual MERLOT members

Browse the Collection by Subject

- [Arts](#)
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Click on the ▶ symbol to see sub-categories. Click on the category name to see items in that category.

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▶ [TeacherEd \(1083\)](#) ←

▶ [Teaching and Technology \(665\)](#)

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2040 Material Matches:

Items 1 - 10 shown

Default sort order by rating.

Resort by: 

Sub-Search: 

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[The Paper Project](#) (Tutorial)

Author: Charles J. Kazilek, Gene Valentine, and Jennifer Tsukayama

This module was selected as the 2005 Classics Award Winner by the MERLOT Teacher Education Editorial

Location: <http://ls.la.asu.edu/paperproject/>

Added: Jun 14, 2005



[Peer Reviews](#) (1) avg: ★★★★★

[Member Comments](#) (3)

[Assignments](#) (2)

[Collections](#) (5)

[Research Guide for Doing Undergraduate History](#) (Reference Material)

Author: Franklin M. Doeringer

A website designed to help undergraduates use internet (and printed)

[Peer Reviews](#) (1) avg: ★★★★★

[Member Comments](#) (none)

[Assignments](#) (none)

[Collections](#) (19)

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MERLOT Teacher Education Detail View						Visit the main MERLOT
Detail View	Edit	Peer Reviews (1)	Member Comments (3)	Add	Assignments (0)	Add
Item Workspace						

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Teaching Evolution: Online Course for Teachers


[See larger photo](#)

submitted: Jan 15, 2003
modified: Jan 12, 2006

Average Ratings: [Peer Reviews](#) : ★★★★★
[Member Comments](#)

Type: Case Study

Location: <http://www.pbs.org/wgbh/evolution/educators/course...>

Primary Subject Category: [-Education/TeacherEd/Teaching Methods/Science](#)
[-Science and Technology/Biology/Evolution](#)

Author: [co-production of WGBH/NOVA Science Unit and Clear Blue Sky Productions, Inc.](#)
WGBH Educational Programming and Outreach Phone: 617/300-3958

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Description: WGBH and Clear Blue Sky Productions will issue a free-of-charge license to those institutions that wish to offer the course online about evolution for teachers using their preferred course hosting and management environments. The html content pages of the course can be downloaded from a password-protected site, and local developers can insert any course management and discussion board code necessary for local use into these pages. All multimedia assets, including video and Web activities, are linked from these pages, so there is no need to host these locally. Any changes to course content must follow disclaimer procedures illustrated in detail within the license. Institutions will receive

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Search Evolution:

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Teacher's Guide: Evolution

Use this free, 40-page guide, filled with engaging, curriculum-based activities and multimedia resources on science and evolution. [Request a printed copy](#) or download PDF sections. Find the "Teacher's Guide Web Resources" referenced in the guide by clicking "go to Web Resources" of each unit listed below.

Introduction


- > [download PDF](#) (268 KB)

UNIT 1

What Is the Nature of Science? 


- > [go to Web Resources](#)
- > [download PDF](#) (128 KB)

UNIT 2

Who Was Charles Darwin? 


- > [go to Web Resources](#)
- > [download PDF](#) (151 KB)

UNIT 3

What Is the Evidence for Evolution? 


- > [go to Web Resources](#)
- > [download PDF](#) (129 KB)

UNIT 4

How Does Evolution Work? 


- > [go to Web Resources](#)
- > [download PDF](#) (160 KB)

UNIT 5

How Did Humans Evolve? 


- > [go to Web Resources](#)
- > [download PDF](#) (188 KB)

UNIT 6

Why Does Evolution Matter Now? 

- > [go to Web Resources](#)
- > [download PDF](#) (141 KB)

UNIT 7

Dealing with Controversy 

- > [go to Web Resources](#)
- > [download PDF](#) (101 KB)

Conclusion and Additional Teacher Resources

- > [download PDF](#) (222 KB)

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Author:

[ELD WITH NASA: Volcanoes](#), submitted: Feb 20, 2006 | [Create an Author Snapshot](#)

[ELL Literacy with NASA: The Earth's Atmosphere](#), submitted: Dec 27, 2005 | [Create an Author Snapshot](#)

[ELL Literacy with NASA: JPL and the El Nino Phenomenon](#), submitted: Dec 27, 2005 | [Create an Author Snapshot](#)

[ELL Literacy with NASA: How Does NASA Study the Atmosphere?](#), submitted: Dec 27, 2005 | [Create an Author Snapshot](#)

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[Extreme Ecosystems](#), submitted: Jun 27, 2005 | [Create an Author Snapshot](#)

[NASA RESOURCE DRIVEN INSTRUCTION: AERO VOCAB](#), submitted: May 16, 2005 | [Create an Author Snapshot](#)

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MERLOT Science Education Teaching Commons

Preparing for a Science Teaching Career

- **Getting advice about science and teaching**
- **Having access to good curriculum**
- **Being part of a community of like-minded people**

Succeeding as a Science Teacher

- **Learning what works from other teachers**
- **Sharing what works with other teachers**
- **Getting recognized for my teaching successes**

Teaching Commons



SCIENCE & MATHEMATICS
EDUCATION COMMUNITY
FOR CALIFORNIA TEACHERS

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Home [Science Teaching Awareness](#) [The Science Teaching Career](#) [Becoming Credentialed](#) [Lifelong Teaching](#)

Standards Based Science & Math Resources

The Science and Mathematics Education Community for California Teachers serves as a support network for California science and math teachers and for those considering a career in teaching. Click any tab at the top of this page to view a variety of best practices and support tools for science and math education.

This website also contains quality online standards-based science and mathematics teaching resources which enhance the K-12 classroom experience. The collection of online materials is available through [MERLOT](#) and is managed by the [Science and Mathematics Education Center](#) at California State University, Fresno. Use the grid below to locate materials by grade level and California standard.

Science to Enhance Literacy

Language-arts adds power to the science curriculum. Find out what you can do to reinforce language-arts skills in your science classroom.

Pursuing a Second Career as a Teacher

Do you have a science or math degree? Have you considered the benefits of pursuing a teaching career? Find out more about the rewarding opportunities available for second career science and math teachers.

Earth and Space Science					
K - 5	A	B	C	D	E
6 - 8	EARTH & PLANETARY STRUCTURE	EARTH & PLANETARY SURFACE	SKY	WATER	EARTH'S PLACE IN THE UNIVERSE
9 - 12					
I OBSERVE, DESCRIBE & RECORD					
II ASK QUESTIONS & MAKE PREDICTIONS					
III EXPERIMENTAL DESIGN					

- **Think SMALL in a BIG Way** (PDF File - 107KB - 12 Pages)
 - Activity: Comet Cratering
 - Student-centered demonstration
 - Models impact cratering
- **Comet Basics** (PDF File - 127KB - 11 Pages)
 - Activity: Cookin' Up A Comet
 - Teacher-centered demonstration
 - Dramatically and physically models a comet
 - Activity: Incredible Edible Comet
 - Student activity
 - Makes a fun, tasty snack and model
 - Activity: Famous Comets
 - Student research and creative writing activity
 - Offers historically significant perspective on comets

ACTIVITIES

[Science as an Inquiry for Sky](#)
[Test entry](#)
[Stardust Activity Guide: Feedback Loops Activity](#)
[Destination Mars, Mission Background](#)

SUMMARY

Cooperative student activity
 Uses communication skills and technology
[Click to go to activity site](#)
 This activity can also be found in:
 Quilt: Sci Grades: K-4: **A2 A1** 5-8: **A2 A1**

Teaching Commons



SCIENCE & MATHEMATICS
EDUCATION COMMUNITY
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Search GO
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Home [Science Teaching Awareness](#) [The Science Teaching Career](#) [Becoming Credentialed](#) [Lifelong Teaching](#)

Lifelong Teaching

As a science teacher, you are among an elite family of individuals committed to improving students' critical thinking and problem solving through the process of scientific investigation and the language of science. On this page, you will find links to outstanding resources to help you achieve this goal.

Professional Societies

Learn more about science education professional societies that have been set up to support your efforts.

- [National Science Teachers Association \(NSTA\)](#) - The National Science Teachers Association (NSTA) is the largest organization in the world committed to promoting excellence and innovation in science teaching and learning for all.
- [American Association for the Advancement of Science \(AAAS\)](#) - The American Association for the Advancement of Science, "Triple A-S" (AAAS), is an international non-profit organization dedicated to advancing science around the world by serving as an educator, leader, spokesperson and professional association.
- [California Science Teachers Association \(CSTA\)](#) - CSTA represents science educators statewide - in every science discipline at every grade level, Kindergarten through University.
- [National Association for Research in Science Teaching \(NARST\)](#) - The purpose of NARST is to promote research in science education at all levels and to disseminate research findings in such ways as to improve science teaching.
- [National Middle Level Science Teachers Association \(NMLSTA\)](#) - NMLSTA strives to stimulate, improve, and coordinate science teaching in the middle level grades and to engage in any and all activities in furtherance thereof.

Classroom Management

Are you having trouble managing your classroom? Get tips for creating a safe classroom environment that fosters respect and support for your students.

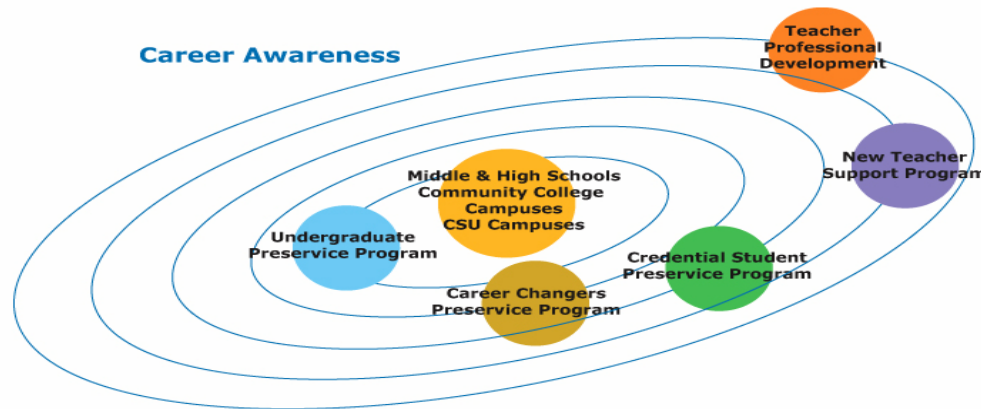
Professional Development Opportunities

Interested in honing your best practices in science education and meeting the new credentialing demands? Click here to learn more.

Tips for Teaching Science to Second Language Learners

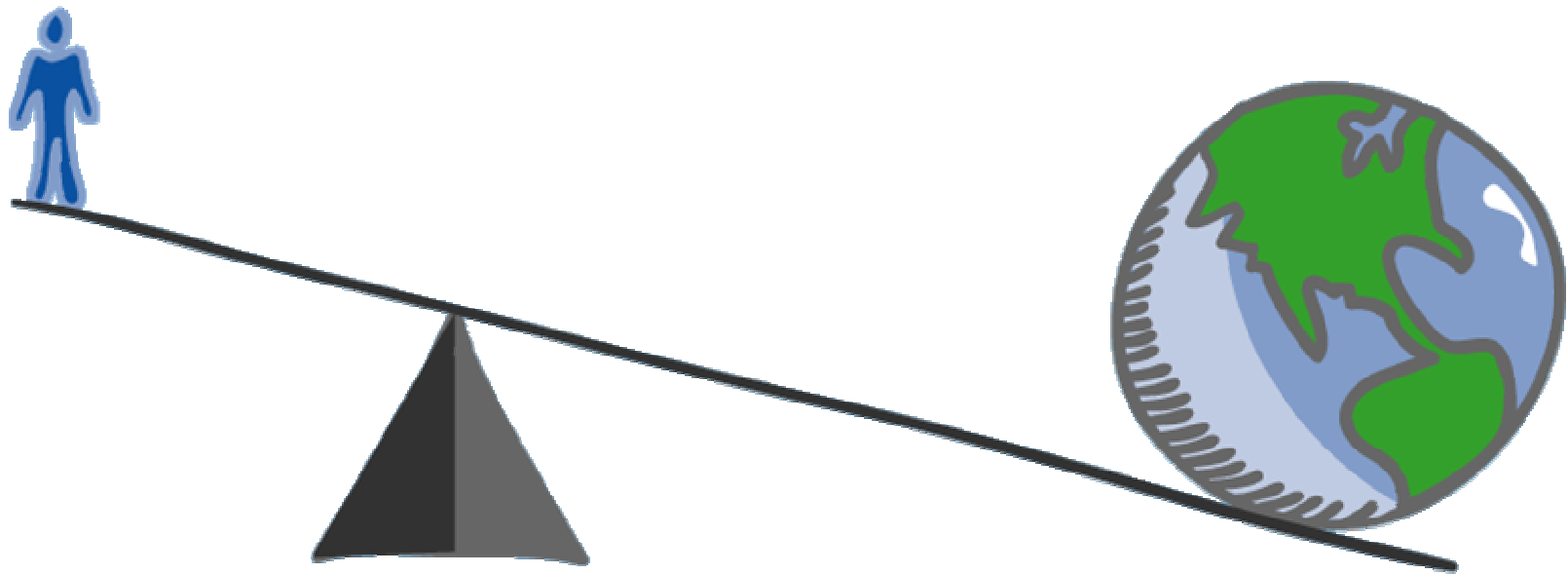
Interested in learning more about helping English Language Learners succeed in the science classroom? Click here for a list of useful tips.

Career Awareness



Moving From...

Mass = 1



To Here....

Mass = Educational Practices

Mass = Campus Community

