Resources and Tools for Your Summer PD

May 4, 2010

http://learningcenter.nsta.org

Flavio Mendez
Senior Director
Agenda

- Learning Center Overview
- Your summer PD plan
- LC Resources
- Summer Content Refreshers

http://learningcenter.nsta.org
Overview
NSTA’s e-PD portal designed to help science teachers address their content/classroom needs.

With over 4,700 resources and opportunities and practical tools to help you organize, personalize, and document your PD growth over time.

http://learningcenter.nsta.org
You are not alone…

May 2010:

Over 60,800 active users with over 416,000 resources across their libraries
I have used the following **resources** from the LC

<table>
<thead>
<tr>
<th>Science Objects</th>
<th>Journal Articles</th>
<th>Web Seminars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Seminar Archives</td>
<td>Podcasts</td>
<td>Online Short Courses</td>
</tr>
<tr>
<td>e-Books</td>
<td>SciGuides</td>
<td>e-Chapters</td>
</tr>
</tbody>
</table>
I have used the following **tools** from the LC

<table>
<thead>
<tr>
<th>My Library</th>
<th>My PD Indexer</th>
<th>My PD Plan &amp; Portfolio</th>
<th>My Transcript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>My Calendar</td>
<td>My Notepad</td>
<td>Help Desk</td>
<td></td>
</tr>
</tbody>
</table>
My PD Plan & Portfolio Tool
http://learningcenter.nsta.org/PortfolioTool/videos/portfolio_overview/index.html
My PD Plan & Portfolio

• Create multiyear plan outlining goals, actions, and evidences
• Upload files to demonstrate completion of goals with reflections
• Generate automatic PDF report with embedded URL links and images

Flavio/Jeff:
Share desktop...sample report
Summer PD: Your goal, to enhance your...

<table>
<thead>
<tr>
<th>Content knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content pedagogy</td>
</tr>
<tr>
<td>Assessment/evaluation skills</td>
</tr>
<tr>
<td>Technology skills</td>
</tr>
<tr>
<td>Leadership skills</td>
</tr>
<tr>
<td>Management skills</td>
</tr>
<tr>
<td>Impact on student learning</td>
</tr>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>
### Summer PD: Your actions, to do a…

<table>
<thead>
<tr>
<th>Options</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6-to-8 week university course (face-to-face or online)</td>
<td></td>
</tr>
<tr>
<td>2-week intensive content refresher at local university or district office</td>
<td></td>
</tr>
<tr>
<td>DIY, self-paced resources: Sci Packs, articles, etc.</td>
<td></td>
</tr>
<tr>
<td>Professional internship</td>
<td></td>
</tr>
<tr>
<td>Professional conferences</td>
<td></td>
</tr>
<tr>
<td>Local workshops</td>
<td></td>
</tr>
<tr>
<td>Web Seminars</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>
## Summer PD: Your evidences, to collect and upload

<table>
<thead>
<tr>
<th>Evidence Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>University/course transcript</td>
<td></td>
</tr>
<tr>
<td>Certificate of participation</td>
<td></td>
</tr>
<tr>
<td>Scanned agenda; program</td>
<td></td>
</tr>
<tr>
<td>Digital photos; samples of student work</td>
<td></td>
</tr>
<tr>
<td>Personal reflections</td>
<td></td>
</tr>
<tr>
<td>Completed assignments</td>
<td></td>
</tr>
<tr>
<td>Evaluation results from PD providers</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>
Name and create your PD Plan & Portfolio Tool

Flavio/Jeff:
Transfer PDF file “How-To Guide”
Go to Learning Center Home Page

http://learningcenter.nsta.org
Name your Portfolio; the default is your name

http://learningcenter.nsta.org
PD Plan & Portfolio Tool

Steps 3-14 on the *How-To Guide* you do as homework after this seminar.

- Choose dates, goal category
- Create goal statement
- Create evidence-action pair(s)
- Upload evidences
- Generate PDF report
Welcome to My Professional Development Plan and Portfolio Tool! This flexible and easy-to-use tool collection represents web-based resources designed to help you reflect upon, plan, manage, organize, and report those experiences defining your own professional development journey across a specified time period. The tools help you complete the following steps in the creation of your own personal PD plan and portfolio:

- **Step One:** Identify your professional development (PD) goal categories
- **Step Two:** Describe your specific PD goals
- **Step Three:** Define action items and portfolio artifacts (evidence)
- **Step Four:** Upload evidence files
- **Step Five:** Review goal status and reflect on your accomplishments
- **Step Six:** Automatically generate your PD reports

Select the button below to begin (or continue) your PD plan and portfolio journey:

- **My Portfolio**
  - Get started (or continue) using this tool!

- **Tool Overview**
  - View a short animation describing the various features of this tool, or download the "Portfolio Help" PDF (0.5 MB) for assistance on how to get started.

- **Sample Reports**
  - View a sample PD portfolio report [PDF file]
Select Professional Development Timeframes & Categories

This page represents the first step toward developing your professional development plan and portfolio (PDPP) using this NSTA PDPP set of web-based tools. As you review the specific professional development categories below, reflect upon those areas of your professional practice that you would like to improve. To help you organize and simplify your personal PDPP journey, you can select only those categories you intend to address in this plan to be displayed within your personal portfolio space. You can return to this screen at any time and add additional categories to your plan if needed.

Once you complete this page, you can define specific goals for each of the selected categories.

Select Timeframe

In addition to specifying personal goal categories for your portfolio, you can also identify the general timeframe that your portfolio will reflect by choosing a range of years below. Choose all that apply:

Current and future years ...

☐ 2009  ☐ 2010  ☐ 2011  ☐ 2012

Past years (if you plan to document previously-completed PD activities) ...

☐ 2002  ☐ 2003  ☐ 2004  ☐ 2005  ☐ 2006  ☐ 2007  ☐ 2008

Check PDPP categories to make visible in your Portfolio

<table>
<thead>
<tr>
<th>Visible</th>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>My Content Knowledge</td>
<td>Select this category if you plan to develop goals that address improving your understanding of content knowledge and concepts associated with a specific science content area (Earth/Space Science, Physical Science, Life Science). You may also want to consider goals associated with your understanding of the nature of science, inquiry, safety issues, and the role of science in the community.</td>
</tr>
<tr>
<td></td>
<td>My Content Pedagogy</td>
<td>This category of professional development goals might address improving your ability to design and implement instructional experiences using methods and strategies related to science instruction (i.e., inquiry-based learning, problem-based learning, etc.). Goals associated with general teaching skills as well as curriculum concerns might also be included in this category.</td>
</tr>
<tr>
<td></td>
<td>My Assessment/Evaluation Skills</td>
<td>Select this category if you hope to improve your ability to design, implement, and analyze strategies to measure and evaluate learning. Goals in this category might also address strategies for self-evaluation and continuous improvement methodologies.</td>
</tr>
</tbody>
</table>
Send your questions to: learningcenterhelp@nsta.org
Category: My Content Knowledge
Goal: Earth and space science content knowledge.
My Tasks: Define, Edit Goal, Delete Goal

Instructions and How-To Animations

Identified Professional Development Resources
Visit the learning center search page where you can select and attach resources to assist in your professional development goals.

Expected Date of Goal Completion
8/27/2010

Goal Statement
Increase my content knowledge in the area of Earth and space science during the summer of 2010 in preparation for the school year 2010-2011.

Why I chose this goal, and where I am now
- Empty - Add information

Standards
Earth and Space Science Content Standards, grades 6-8.
Support Evidence

Category: My Content Knowledge
Goal: Earth and space science content knowledge.
Evidence: Learning Center's SciPacks (2)
My Tasks: Upload File, Add Note/Link, View/Edit Evidence, Delete Evidence

Instructions

Action Items
- Successfully complete Learning Center SciPack

Justification of Action Items
The Learning Center’s SciPacks contain content knowledge that I must know as a science teacher. The SciPack are self-paced, giving me the freedom to complete them when it is convenient for me. They include quizzes and an embedded test to assess knowledge gain. It also has a content mentor feature that I can use to submit questions to an expert if needed.

Evidence of Action Items Completion
SciPack final assessment certificate (PDF).

You are currently using 0% of your 1 GB
<table>
<thead>
<tr>
<th>Category</th>
<th>Goal</th>
<th>Action</th>
<th>Expected Date of Goal Completion</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>My Content Knowledge</td>
<td>Earth and space science content knowledge.</td>
<td>Edit Reflection</td>
<td>8/27/2010</td>
<td></td>
</tr>
</tbody>
</table>
Select those specific items you would like to include in a printed document representing a report on the state of your current professional development portfolio. This document will be generated as a PDF file, and it will present all the information you select (including links and most uploaded evidence files) as a formatted, printable file.

In order to view the document you will need “Adobe Reader” installed on your computer. Link below will take you to the Adobe download site.

- Download Adobe Reader

Some users may receive the following error when trying to view your generated portfolio report:

“There was an error opening this document. This file cannot be found.”

To correct this problem, simply save the generated report file to your computer first (select “Save” rather than “Open”), then open the file using a PDF reader.

- View “Generating a Report” How-To Animation
Let’s pause for questions about the Learning Center’s PD Plan & Portfolio tool
Resources and Opportunities
The Learning Center has over 4,700 resources

<table>
<thead>
<tr>
<th>Do-It-Yourself Learning</th>
<th>Live Online Seminars &amp; Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Objects [67]</td>
<td>Short Courses [20+/year]</td>
</tr>
<tr>
<td>SciPacks [17]</td>
<td></td>
</tr>
<tr>
<td>Archived Seminars/Podcast [350+]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Books &amp; Articles</th>
<th>In Person Experiences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Articles [2800+]</td>
<td>Symposia [6-10/year]</td>
</tr>
<tr>
<td>NSTA Press Books [250+]</td>
<td>PD Institutes [6-10/year]</td>
</tr>
<tr>
<td>e-Books [125+]</td>
<td></td>
</tr>
<tr>
<td>e-Chapters [780+]</td>
<td></td>
</tr>
</tbody>
</table>

Over 1,300 resources are FREE to all teachers!
Featured e-PD resources

FREE NSTA Science Objects

SciPacks

SciGuides

supported by

NSF

NASA

NOAA

FDA

S.D. Bechtel, Jr. Foundation

THE WILLIAM AND FLORA HEWLETT FOUNDATION

U.S. Department of Transportation

National Highway Traffic Safety Administration

Agilent Technologies Foundation

NSTA
2-hour free, self-paced, learning experience

Interactive simulations

Questions to promote interaction and learning

Based on science education standards

Sixty-seven currently available
Interactive Simulations

NSTA SCIENCE SIMULATION: Make a Reef
Featured e-PD resources

supported by

3-5 Science Objects

Unlimited Content
Mentor Email Support

SciPack

Assessment and Certification Opportunity

Pedagogical Implications Component
Welcome

To access your SciPack, refer to the Table of Contents below.

1. Select your SciPack from the Select drop-down list
2. Click Find
3. To expand the SciPack Table of Contents, click on the SciPack title or click the + next to the SciPack title
4. Click the name of the section you would like to view

When you have only one SciPack, start with Step 3 above.

Table of Contents

Select: Force and Motion  Find

<table>
<thead>
<tr>
<th>SciPack</th>
<th>Completion</th>
<th>Last Accessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Force and Motion</td>
<td></td>
<td>07/10/07 8:44 AM</td>
</tr>
<tr>
<td>Position and Motion</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Newton's First Law</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Newton's Second Law</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Newton's Third Law</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Force and Motion Final Assessment</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Glossary</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Pedagogical Implications</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Scope and Goals</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>Help Desk</td>
<td></td>
<td>Not Accessed</td>
</tr>
<tr>
<td>NSTA Learning Center</td>
<td></td>
<td>Not Accessed</td>
</tr>
</tbody>
</table>
Featured e-PD resources

FREE NSTA Science Objects

SciPacks
Building Content Knowledge

SciGuides
Sites, Solutions, Success.

supported by

NSF
NASA
NOAA
FDA
National Highway Traffic Safety Administration
GE Foundation
S.D. Bechtel, Jr. Foundation
Hewlett Foundation
Agilent Technologies Foundation

NSTA
Valuable classroom resources for science teachers interested in integrating the web into their teaching

- Each SciGuide consists of:
  - Customized lesson plans using selected web resources
  - Approximately 100 standards-aligned web-accessible resources
  - Teacher media vignettes describing and showcasing the lessons
  - Samples of student work
  - Interactives utilized in SciPack on same topic
- Journal Articles
- Podcasts
- Online Courses
- e-Book chapters
- Web Seminar Archives
Let’s pause for questions about Learning Center resources
Add free resources to your “Library” and/or directly to your “PD Plan”
Find resources by:

- Subject
- Learning Resources & Opportunities
- All FREE Resources
- Advanced Search
- Grade Level
- State Standards
- Learning Preference

Now you try it!
Earth's Changing Surface: Changing Earth From Within

Science Object

Average User Rating: ★★★★★

Science Objects are two hour on-line interactive inquiry-based content modules that help teachers better understand the science content they teach. This Science Object is the second of three Science Objects in the Earth's Changing Surface ScPack. It explores the landforms we see on Earth today and the processes that create these landforms. Landforms are the result of a combination of constructive and destructive forces. The Earth processes we see... [view full summary]

Member Price: Free
Nonmember Price: Free

Grade Level: Elementary School, Middle School

Oceans Effect on Weather and Climate: Global Precipitation and Energy

Science Object
“Add to PD Plan”
Advanced Search

Search all NSTA resources and offerings below:

Keyword: [ ]

Author: [ ]

Type of Learning Resource: [Do-It-Yourself Learning]

Grade Level: [All Grade Levels]
- Elementary School
- Middle School

Science Discipline: [Earth and Space Science]

Price: [ ]
- Climate
- Cycles
- Earth in the solar system
- Earth materials
- Earth processes
- Earth system structure
- Earth's water
- Energy
- Evolution
- Solar system
- Solar system changes
- Space exploration
- Weather
Add your resources to Library and Plan now
Let’s pause for questions about resources in the Learning Center
My Library

• Store and create notes for individual resources
• Upload your own resources
• Create collections of resources
• Share your collections with colleagues
Resource Upload

New to the Learning Center! Enjoy the convenience of having all your electronic resources in one location. Upload up to 1.5 GB of your resources to your Learning Center library, add them to your collections, create notes about them, and e-mail them to your friends. File formats include PowerPoint presentations, Word documents, Excel spreadsheets, PDF files, image files, and more. Each file must be 10 MB in size or smaller. Please read the Terms and Conditions.

You are currently using 0.2% of your 1.5 GB
You have 1.5 GB of available space

My Uploaded Resources

1. NSTA Learning Center
   - This is the URL for the NSTA Learning Center.
   - Email to a Friend
   - Modify Collections
   - Create Note
   - Delete this Resource

2. NSTA Learning Center Marketing Brochure.pdf
   - PDF file of the NSTA LC Marketing Brochure.
   - Email to a Friend
   - Modify Collections
   - Create Note
   - Delete this Resource

3. ASTC
   - Association for Science and Technology Centers home page.
   - Email to a Friend
   - Add to Collection
   - Create Note
   - Delete this Resource

4. NASA Jet Propulsion Laboratory
   - The Jet Propulsion Laboratory is the NASA Center responsible for Solar System exploration.
   - Email to a Friend
   - Modify Collections
   - Create Note
   - Delete this Resource

5. Sample Agenda for APS implementation.doc
   - Sample agenda created for APS administrators to run implementation workshops.
   - Email to a Friend
   - Modify Collections
   - Create Note
   - Delete this Resource
See web seminar archive from Feb. 25 for steps on how to
Create and share a collection of resources with a colleague
Add a personal resource or a URL to your “Library”
What type of resources did you add to your “Library”?  

<table>
<thead>
<tr>
<th>Word documents</th>
<th>PPT presentations</th>
<th>URLs</th>
<th>Images</th>
<th>Excel spreadsheets</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
This summer: Content PD Refreshers?
<table>
<thead>
<tr>
<th>SciPack Title</th>
<th>Earth, Sun, and Moon</th>
<th>Gravity and Orbits</th>
<th>The Solar System</th>
<th>The Universe</th>
<th>Oceans Effect on Weather and Climate</th>
<th>Rock Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth’s Changing Surface</td>
<td>Force and Motion</td>
<td>Energy</td>
<td>Nature of Light</td>
<td>Chemical Reactions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plate Tectonics</td>
<td>Cells Structure and Function</td>
<td>Coral Reef Ecosystems</td>
<td>Science of Food Safety</td>
<td>Resources and Human Impact</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
If offered, would you attend one or more, free “content refresher” web seminar(s) in July?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

We are considering developing “content refresher” web seminars for teachers, based on the content included in NSTA SciPacks.
Don’t forget the web seminar evaluation and your FREE SciPack

<table>
<thead>
<tr>
<th>Completed</th>
<th>Earth &amp; Space 8 Topics</th>
<th>Physical 5 Topics</th>
<th>Life 4 Topics</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Earth, Sun &amp; Moon</td>
<td>Force &amp; Motion</td>
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<td>Weather &amp; Climate</td>
<td>Electric and Magnetic</td>
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<td>Plate Tectonics</td>
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<tr>
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<td>Earth’s Changing</td>
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<tr>
<td></td>
<td>Surface</td>
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</tbody>
</table>
Collaborators
Flavio Mendez
Senior Director
NSTA Learning Center
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Email: fmendez@nsta.org
Questions?

http://learningcenter.nsta.org
Thank you to the sponsor of tonight's Web Seminar:
National Science Teachers Association
Dr. Francis Q. Eberle, Executive Director
Zipporah Miller, Associate Executive Director
Conferences and Programs
Al Byers, Assistant Executive Director e-Learning

NSTA Web Seminars
Paul Tingler, Director
Jeff Layman, Technical Coordinator

LIVE INTERACTIVE LEARNING @ YOUR DESKTOP