Using the Learning Center as Your e-Textbook with Pre-service Teachers

December 8, 2014
7:30 p.m. ET / 6:30 p.m. CT / 5:30 p.m. MT / 4:30 p.m. PT
Introducing today’s presenters...

Meredith Houle Vaughn
San Diego State University

Flavio Mendez
NSTA
Tell us about you!

Please use the chat window to introduce yourself to others attending this seminar

• Your institution
• Your state or country
• Your role
Agenda

• The NSTA Learning Center (LC)
• Using NLC as an e-Textbook
• Q&A
Purpose: To enhance the personal learning of educators by providing a suite of tools, resources, and opportunities that support their long term growth based on their unique learning needs and preferences within a collaborative learning community.

http://learningcenter.nsta.org
Over 161,000 educators are spending hours each week completing self-directed learning experiences.
What’s available in the NLC?

• Over 11,000 digital resources
  o Journal Articles (6,200+)
  o e-Book chapters (2,200+)
  o Science Objects (94)
  o Sci Packs (25)
  o Web Seminar archives, podcasts (2,000+)
  o NASA, NDEP (55 STEM videos)
• Prof. Learning tools (diagnose, document)
• Collections of resources (6,900+)
• Asynchronous forums (14)
My Library

- Store NSTA resources
- Upload personal resources
- Review, recommend resources
- Create, share, make collections public
My Community Forums

Over 3K Topics; 50K posts

14 Public Forums, including:

- Physical, Life, Earth/space Science
- NGSS
- Evaluation/Assessment
- Research in Science Ed
- Elementary Science
- New Teachers
- Your own Private Forum
Take a moment to explore the NLC

http://learningcenter.nsta.org
Back-End
Instructor Dashboard
Accountability system for professors; collect data on usage by individual, manage the content on your class landing page, analyze pre/post test scores and other activity data.

<table>
<thead>
<tr>
<th>User</th>
<th>Date Registered</th>
<th># of Resources via Subscription</th>
<th>Last Active</th>
<th>Activity Points</th>
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<td>Teacher name</td>
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<td>33</td>
<td>03/25/2013 5:43 PM</td>
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<tr>
<td>Teacher name</td>
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<td>Teacher name</td>
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<td>04/01/2013 9:00 PM</td>
<td>1270</td>
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<tr>
<td>Teacher name</td>
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<td>0</td>
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Pre/Post Test Results

<table>
<thead>
<tr>
<th>Test</th>
<th>Date Completed</th>
<th>Results</th>
<th>Score</th>
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<tbody>
<tr>
<td>Solar System Pre-Assessment</td>
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<td>Solar System Post-Assessment</td>
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<td>Earth and Space Science Indexer</td>
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<tr>
<td>Life Science Indexer</td>
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<tr>
<td>Physical Science Indexer</td>
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### Overall Group Activity

**Teacher name**

<table>
<thead>
<tr>
<th>Activity</th>
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<tbody>
<tr>
<td>1134 Add NSTA Resource</td>
<td>667</td>
</tr>
<tr>
<td>88 Create Collection</td>
<td>67</td>
</tr>
<tr>
<td>42 Complete Indexer</td>
<td>59</td>
</tr>
<tr>
<td>0 Add Event</td>
<td>57</td>
</tr>
<tr>
<td>1 Add Personal Resource</td>
<td>55</td>
</tr>
<tr>
<td>33 Attend Web Seminar</td>
<td>44</td>
</tr>
<tr>
<td>42 Complete SciPack</td>
<td>42</td>
</tr>
<tr>
<td>43 Write Review</td>
<td>42</td>
</tr>
<tr>
<td>10 Recommend Resource</td>
<td>33</td>
</tr>
<tr>
<td>62 Post comment/question</td>
<td>30</td>
</tr>
<tr>
<td>66 Share Collection</td>
<td>29</td>
</tr>
<tr>
<td>33 Publicize Collection</td>
<td>26</td>
</tr>
<tr>
<td>20 Create Portfolio</td>
<td>20</td>
</tr>
<tr>
<td>390 Create Portfolio Goal</td>
<td>19</td>
</tr>
<tr>
<td>298 Upload Evidence</td>
<td>19</td>
</tr>
<tr>
<td>163 Complete Reflection</td>
<td>18</td>
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<tr>
<td>39 Generate Report</td>
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**Total Points**: 75255

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### Activity for [Teacher name]

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<tr>
<td>1 Create Collection</td>
<td>13</td>
</tr>
<tr>
<td>1 Complete Indexer</td>
<td>12</td>
</tr>
<tr>
<td>0 Add Event</td>
<td>10</td>
</tr>
<tr>
<td>0 Add Personal Resource</td>
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<tr>
<td>4 Attend Web Seminar</td>
<td>8</td>
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<tr>
<td>3 Complete SciPack</td>
<td>7</td>
</tr>
<tr>
<td>1 Write Review</td>
<td>7</td>
</tr>
<tr>
<td>0 Recommend Resource</td>
<td>6</td>
</tr>
<tr>
<td>3 Post comment/question</td>
<td>6</td>
</tr>
<tr>
<td>2 Share Collection</td>
<td>5</td>
</tr>
<tr>
<td>2 Publicize Collection</td>
<td>5</td>
</tr>
<tr>
<td>1 Create Portfolio</td>
<td>4</td>
</tr>
<tr>
<td>16 Create Portfolio Goal</td>
<td>4</td>
</tr>
<tr>
<td>18 Upload Evidence</td>
<td>4</td>
</tr>
<tr>
<td>9 Complete Reflection</td>
<td>3</td>
</tr>
<tr>
<td>1 Generate Report</td>
<td>3</td>
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</tbody>
</table>

**Total Points**: 3955
IHEs using the NSTA Learning Center as their e-textbook:

- Appalachian State University, *fa14*
- Brenau University, *fa14*
- Central Connecticut State University, *sp14*
- College of Charleston, *f13*
- College of St. Benedict/St. John's Univ., *sp14*
- Columbus State University, *fa14*
- Dominican University, *su13*
- Eastern Connecticut State University, *fa14*
- Elizabethtown College, *f13*
- Florida Gulf Coast University, *fa14*
- Florida International University, *sp12*
- Fort Hays State University, *f13*
- Idaho State University, *sp12*
- Indiana Univ.-Purdue Univ. Columbus, *f12*
- Indiana University South Bend, *f13*
- Kent State University, *fa14*
- McLennan Community College, *su14*
- Mercer University, *sp12*
- Merrimack College, *fa14*
- Midwestern State University, *sp14*
- Minnesota State University Moorhead, *sp14*
- Montana State University Billings, *sp13*
- New Jersey City University, *fa14*
- New Mexico State University, *sp14*
- Northern Arizona University, *sp14*
- Northeastern Illinois University, *sp14*
- Northwestern College, *fa14*
- Oregon State University Cascades, *su14*
- Plymouth State University, *f12*
- Saint Mary's College at Notre Dame, *f13*
- San Diego State University, *sp14*
- Shippensburg University, *sp14*
- Southern Adventist University, *su14*
- Southern Illinois University Carbondale, *f11*
- SUNY Cortland, *fa14*
- University of Alberta, *fa14*
- University of Central Missouri, *f13*
- University of Connecticut, *su14*
- University of Delaware, *f13*
- University of Hawaii at West Oahu, *fa14*
- University of Houston, *fa14*
- Univ. of Maryland Baltimore County, *f12*
- University of Montana, *sp14*
- University of Nebraska Omaha, *su14*
- University of New Mexico, *fa14*
- University of Portland, *fa14*
- University of Regina, *sp14*
- University of South Carolina, *su14*
- University of South Carolina Aiken, *sp14*
- University of Texas at Tyler, *f11*
- University of Wisconsin Oshkosh, *f13*
- Virginia Commonwealth University, *f13*
- Virginia Tech, *sp14*
- Wayne State College, *fa14*
- Western New Mexico University Gallup, *sp13*
- Wilson College, *fa14*
- Wright State University, *sp14*
Dr. Meredith Houle Vaughn
San Diego State University

- Science Methods for K-6 pre-service teachers
- Science Ed Masters program for K-12 educators
- 30-35 students per semester

Ways I use the NSTA Learning Center as my class e-Textbook include…
## NSTA Learning Center access models and costs to users

<table>
<thead>
<tr>
<th>Individual, non-NSTA member</th>
<th>Individual, NSTA member</th>
<th>You and your students if using NLC as e-Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free access to ~4,000 resources, all tools, and all community features. “A-la-carte” access to fee-based resources, SciPacks, SciGuides, journal articles, and e-book chapters.</td>
<td>Free access to ~4,000 resources and all journal articles, all tools, and all community features. “A-la-carte” discounted access to fee-based resources, SciPacks, SciGuides, and e-book chapters.</td>
<td>For $67 or $99 per student <em>(your choice)</em>, gain free access to all resources (excluding books, conferences), tools, community features and to all fee-based resources for term. Add resources to library and own them forever. Students receive 1-year NSTA student membership.</td>
</tr>
<tr>
<td>Option 1: $99 per student</td>
<td>Option 2: $67 per student</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Class landing page (with branding), custom text and home button; link back to institution; local leader boards</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Private community forum (optional)</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Pre/post assessment items (optional)</td>
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<td></td>
</tr>
<tr>
<td>Online advisors, help desk, online orientation</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Student: All NLC fee-based resources free for 1-year (except: books, e-books, online courses); tools, forums</td>
<td>Student: All NLC fee-based resources free for 6-months (except: books, e-books, online courses); tools, forums</td>
<td></td>
</tr>
<tr>
<td>Student: 1-year NSTA Student Membership ($35 value)</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Professor: All NLC fee-based resources free for 1-year (except: books, e-books, online courses); all tools, all forums</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Professor: Access to administrator dashboard with usage data, assessments scores</td>
<td>same</td>
<td></td>
</tr>
</tbody>
</table>
as e-Textbook

http://learningcenter.nsta.org/etextbook
:: e-Textbooks that Engage Preservice Teachers

The Learning Center is Your e-Textbook

Create a truly integrated and blended learning experience for your students with a customized interactive e-textbook leveraging the NSTA Learning Center!

What if you could select from existing collections of interactive web modules, simulations, lesson activities, e-chapters, and video podcasts to create an engaging suite of content that is wrapped in an integrated community for sharing, rating, and discourse with badges, points and leader boards to engage your students' learning? What if you could track your students' learning via pre/post assessments tightly coupled to the science content?

Watch the archive for Using the Learning Center as Your e-Textbook with Preservice Teachers web seminar presented on October 30, 2014.

With the NLC as your e-Textbook, you and your students will be able to:

- Access over 11,000 interactive digital learning resources
- Deepen your knowledge through rich discussions coupled to selected pedagogical and subject matter content
- Motivate and affirm your students' learning with points, badges, and class-specific leader boards that capture online student engagement and learning

As the class professor, you will be able to:

- Track your students' activities via the instructor's dashboard

University of Texas at Tyler
The Learning Center allows me to pre-load a library of materials for my pre-service teachers to access, and they can build upon those resources and add their own as they learn content and pedagogy. Using the PD Indexer tool, I can develop a remediation plan to address any gaps in knowledge that I see. This is dynamic and useful for pre-service education.

Michael O'Dell, PHD
Roosth Chair in Education, Executive Director, The Ingenuity Center, University of Texas at Tyler

See all Awards and Testimonials
Begin creating your e-Textbook’s landing page by answering the following questions.

State or Country: California
Institution: San Diego State University, TE910C
Professor: Meredith Vaughn
Email Address: mhoule@mail.sdsu.edu
Full Course Name: Spring 2015: TE910C: Teaching Science in the...
e.g., EDUC101: Methods for Teaching Science
Semester: Spring 2015
e.g., Summer 2014, Fall 2014, Spring 2015
Number of students in class: 35

Do you want a private forum in the Learning Center for this class for asynchronous discussions?
- Yes
- No

What do you want your students to pay (1 year full access of Learning Center resources = $99) or (6 months full access of Learning Center resources = $67). Both options include 1 year of NSTA student membership.
- $99
- $67

How may we improve this process? Please tell us what you think.
The NSTA Learning Center for Preservice Teachers

Thousands of interactive resources and useful tools are at your fingertips when you use the NSTA Learning Center. As a preservice teacher, you can access these resources, store them in a personal library, and return to them as needed throughout your career. You can also choose to upload your own files or notes to your library, making a secure and available collection of resources that suit your personal and professional needs.

Your professor may have created a collection of specific resources for your course and placed those in your library in the Learning Center, under the tab labeled: "My Resource Collections."

From the dropdown menu below select your state, institution, professor, and course.

State or Country: California
Institution: San Diego State University, TE910C, spring 2015 (Vaughn)
Professor: Meredith Vaughn
Course: Choose a Course

THIS WILL TAKE SEVERAL MOMENTS. DO NOT CLICK THE SUBMIT BUTTON MORE THAN ONCE.
If you are a professor of science pre-service teachers, take a moment now to create your class landing page for the coming semester or other future semester

http://learningcenter.nsta.org/etextbook
If you have additional questions about using the Learning Center to teach your science pre-service class, please contact Flavio Mendez to set up an appointment.

fmendez@nsta.org
703-312-9250
Additional slides to display while professor shares her experience
PD Indexer

- Diagnose Content Knowledge Understanding
- View Resources and Opportunities for Consideration
- Add to your Plan
PD Indexer

Category: Life Science Indexer
Date: 4/1/2011

About Your Feedback

Collapse All Recommended Resources

Cell Division and Differentiation

Your score: 5 out of 10 correct

Cell Division and Differentiation: Continuity of Life
Science Object

Continuity of Life

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 first of three Science Objects in the Cell Division and Differentiation SciPack.

Member Price: Free
Nonmember Price: Free

Grade Level: Elementary School, Middle School, High School

Cell Division and Differentiation: Variation and Specialization of Cells
Science Object

Variation and Specialization of Cells

Add to P.D. Plan
Professional Learning Experiences

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Diagnose content knowledge</td>
<td><em>(PD Indexer)</em></td>
</tr>
<tr>
<td>Create plan and document learning experiences</td>
<td><em>(PD Plan)</em></td>
</tr>
<tr>
<td>Assemble a library of resources for future study</td>
<td><em>(My Library)</em></td>
</tr>
<tr>
<td>Enhance content &amp; pedagogy</td>
<td><em>(SciPacks, Science Objects, e-Chapters)</em></td>
</tr>
<tr>
<td>Acquire classroom tested lesson plans</td>
<td><em>(Journals)</em></td>
</tr>
<tr>
<td>Network and establish relationships with like-minded individuals</td>
<td><em>(Profile)</em></td>
</tr>
<tr>
<td>Share/recommend learning resources</td>
<td><em>(Collections)</em></td>
</tr>
<tr>
<td>Participate in a learning community</td>
<td><em>(Forums)</em></td>
</tr>
<tr>
<td>Review, rate, and recommend resources</td>
<td><em>(My Library)</em></td>
</tr>
<tr>
<td>Attend live seminars to learn and meet experts/stay current</td>
<td><em>(Web Seminars)</em></td>
</tr>
<tr>
<td>Participate in the professional association for science teachers</td>
<td><em>(Membership)</em></td>
</tr>
<tr>
<td>Earth and Space</td>
<td>Physical</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Earth, Sun, and Moon</td>
<td>Force and Motion</td>
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<tr>
<td>Gravity and Orbits</td>
<td>Energy</td>
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<tr>
<td>The Solar System</td>
<td>Nature of Light</td>
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<tr>
<td>The Universe</td>
<td>Chemical Reactions</td>
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<td>Weather and Climate</td>
<td>Electric and Magnetic Forces</td>
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<tr>
<td>Rocks</td>
<td>Atomic Structure</td>
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<tr>
<td>Plate Tectonics</td>
<td>Explaining Matter with Elements, Atoms, and</td>
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<tr>
<td>Earth’s Changing Surface</td>
<td>Molecules</td>
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</table>
Activity

As an introduction to this material, imagine that you are in the middle of a frozen pond. This pond is so slick that it's essentially frictionless. In other words, there is no friction between you and the pond. Your job is to get off the pond to safety. You can do a few things. One is to stand up and walk. Another is to crawl. You also have plenty of snow around you, and you can throw a snowball either up, down, or to the side. Gee, you don't suppose those snowballs have something to do with getting off the pond, do you?

Figure 1.2. Action and Reaction Simulation.
Journal Articles in the NLC:

- Science & Children *(Elementary)*
- Science Scope *(Middle)*
- The Science Teacher *(High)*
- Journal of College Science Teaching

Over 6,200 journal articles total, all free to NSTA members
My Library

Welcome to your collection of professional development resources. Select from the links and tabs below to access your NSTA resources, your uploaded items, organize them into collections, and then share your collections with others.

My Resources   My Resource Collections

Do-it-Yourself Learning
- SciGuides (41 items)
- SciPacks (22 items)
- Web Seminar Archives (46 items)

Books & Articles:
- Science Objects (77 items)
- Podcasts (61 items)
- Symposia Archives (8 items)

Live Online Seminars & Classes
- Web Seminars (4 items)

In Person Experiences
- No items

External Resources
- External Resources (2 items)

My Uploaded Resources
- My Uploaded Resources (136 items)

Upload a Resource
About Me: As a teacher, I bring experience to my work at the Vermont Agency of Education. I am co-lead in Vermont’s role in NGSS development. As the Elementary Science & Mathematics Specialist I assist with the implementation of the CCSS in both Mathematics and English Language Arts. Recently our team developed a Short Focused Research Project based on science content for K-2 students that is being shared regionally throughout the state. I am a member of a collaborative team of specialists from New Hampshire, Rhode Island and Measured Progress who develop, and construct the NECAP science assessment. In 2000, I was honored as Vermont's elementary Presidential Awardee for Excellence in Science Teaching. I am an active NSTA member who is currently on the committee that chooses the Outstanding Science Trade Books.

Affiliation: VT Agency of Education

Location: West Barnet, VT
Accountability system for professors; collect data on usage by individual, manage the content on your class landing page, analyze pre/post test scores and other activity data.

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</table>
Identify Evidences

Portfolio Manager
- My Content Knowledge
  - (goal) - Review/Improve Physical Science Understanding
  - (goal) - Cell Differentiation: Depth of Understanding
- My Content Pedagogy
- My Assessment/Evaluation Skills
- My Technology Skills
- My Leadership Skills
- My Management Skills
- Impact on Student Learning
- Other

Category: My Content Knowledge
Goal: Cell Differentiation: Depth of Understanding
My Tasks: Define Evidence, Edit Goal, Delete Goal

Instructions and How-To Animations

Identified Professional Development Resources

<table>
<thead>
<tr>
<th>PD Resource to Address Goal</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Division and Differentiation: Continuity of Life</td>
<td>I am a middle level teacher, now responsible for 3 preps, and am teaching in an area with little experience</td>
</tr>
</tbody>
</table>

Expected Date of Goal Completion
6/1/2011

Goal Statement
- Empty - Add information

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

Standards
On-going support for professors and students:

**Support for professors:**
- One-on-one advice from mentor professor/online advisors
- Discuss with other professors via private forum
- Web seminars

**Support for students:**
- Online Advisors
- SciPack Mentors

**Support for both professors and students:**
- Orientation seminars at beginning of semester
  - Jan. 22 & Feb. 3, from 7:15 – 8:45 pm Eastern time
- Help desk for technical questions
Student e-mail to professor!

Just wanted to say a HUGE thank you for using the NSTA subscription as a text for our course this semester....I could not agree with a better way to use my textbook money than to subscribe to a great resource like this...also I think this will be one of the most resourceful tools I will use in my future teaching career. Just wanted to acknowledge the awesomeness of this helpful tool.

Pre-service teacher,
Indiana University South Bend
Dr. Susan Blunck, University of Maryland Baltimore County, tells her students:

“Many school districts are using the LC as THE online platform for their teachers’ professional learning. It is one of the most innovative professional development learning tools in the country and by using in class, you will be many steps ahead going into the schools.”
Thanks to today’s presenters!

Meredith Houle Vaughn  
San Diego State University

Flavio Mendez
NSTA
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