Planning Your Summer PD Activities

Presented by: Flavio Mendez

May 8, 2012
Planning Your Summer PD Activities

May 8, 2012

http://learningcenter.nsta.org

Flavio Mendez
Senior Director
Agenda

- Your PL plans
- PD Plan & Portfolio Tool
- The NSTA Learning Center
- LC Resources, Library, and Forums

http://learningcenter.nsta.org
An opportunity:

- Plan (set goals)
- Implement
- Reflect and Document
- Report

summer 2012
What are your professional learning plans for the summer?
<table>
<thead>
<tr>
<th>To enhance my…</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content knowledge</td>
</tr>
<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>Other</td>
</tr>
</tbody>
</table>
How are you going to implement your plans?
<table>
<thead>
<tr>
<th>I plan to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attend a 6-to-8 week university/community college course</td>
</tr>
<tr>
<td>Attend a 2-week intensive course at a local university, district office, etc.</td>
</tr>
<tr>
<td>Work on DIY, self-directed online resources</td>
</tr>
<tr>
<td>Participate in professional conferences/out-of-state programs</td>
</tr>
<tr>
<td>Attend local workshop(s)</td>
</tr>
<tr>
<td>Read/study/join a community discussion forum</td>
</tr>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>
How are you going to document your PD activities?
My PD Plan & Portfolio Tool
visit the Learning Center at http://learningcenter.nsta.org
Goal: Earth and space science content knowledge.

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.
Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 8205 Activity Points!

You've recently earned Sapphire Aggregator and Personal Resources.
You're close to earning Diamond Commenter and Post 14 more comment/questions.

Activity Progress Bar
Your Activity Matters! It Donates Produce!

Kathryn Kennedy
Last Week's Top Disseminator

With these resources you can build your professional development plan, track your activities and assess your progress. You can start at “Explore Learning Opportunities” below or by creating your game plan with the PD Plan and Portfolio tool. You may also review an archived Web Seminar or a multimedia overview of the Learning Center.
Name your Portfolio; your name is the default

[Image of the NSTA Learning Center website with a highlighted section where users can type a name to create a portfolio.]

John’s Portfolio

Create Portfolio
PD Plan & Portfolio Tool

Steps 3-16 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 PD Plan & Portfolio Tool!

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 ...

☐ 2012  ☐ 2013  ☐ 2014  ☐ 2015

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

☐ 2004  ☐ 2005  ☐ 2006  ☐ 2007  ☐ 2008  ☐ 2009  ☐ 2010  ☐ 2011

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>
</tbody>
</table>
Define/Measure Goals

Category:  My Content Knowledge

My Tasks

Instructions

Click the button above to define a specific goal statement. Information from the following websites may help you define goals based on state/national standards:

- Review Your State Certification Requirements
- Standards for Professional Development for Teachers of Science
- Benchmarks for Scientific Literacy
- National Board for Professional Teaching Standards
- Partnership for 21st Century Skills
- Information and Communication Technology Literacy
- National Educational Technology Standards

- My Content Knowledge

View "Creating a Goal" How-To Animation
Define Your Professional Development Goals

Overview
Category: My Content Knowledge

Goal
Goal Name (required):

Expected Date of Goal Completion (required):

Goal Statement (required):
(Describe a professional development goal for the selected category)

Characters Remaining:

Why did I choose this goal, and where am I now? (optional):
(Reflect on your initial ability levels related to the stated goal)

Characters Remaining:
Identify Evidences

Category: My Content Knowledge
Goal: Earth and space science content knowledge.

My Tasks: Define Evidence, 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 5-8.
In this example, what would you do to increase your content knowledge in Earth and Space Science?

Please type your responses on the chat window.
<table>
<thead>
<tr>
<th>My digital evidence might be…</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course transcript</strong></td>
</tr>
<tr>
<td><strong>Certificate</strong></td>
</tr>
<tr>
<td><strong>Scanned agenda; photos</strong></td>
</tr>
<tr>
<td><strong>Samples of student work</strong></td>
</tr>
<tr>
<td><strong>Personal reflections</strong></td>
</tr>
<tr>
<td><strong>Completed assignments</strong></td>
</tr>
<tr>
<td><strong>Reports, reviews</strong></td>
</tr>
<tr>
<td><strong>Other</strong></td>
</tr>
</tbody>
</table>
Overview
Category: My Content Knowledge
Goal: Earth and space science content knowledge.
Goal Stmt: Increase my content knowledge in the area of Earth and space science during the summer of 2010 in preparation ...
[view full statement] [edit statement]

Evidence (Action Items and Portfolio Artifacts)
Evidence Name (required):

Select or Create Action Item(s) (required):
Suggested Action Items:
(Please check one)
☐ Successfully complete a college/university/NSTA or other professional organization course
☐ Participate in a district/division workshops
☐ Participate in NSTA or other conference workshops
☐ Present at a state or national conference
☐ Publish an article
☐ Complete the Graduate Record Exam (Content Test)
☐ Read a Professional journal/text

User Created Action Item(s):
(These might include actions related to measuring and reporting successful goal accomplishment. For example, creating new lesson material or developing and using comprehensive evaluation rubrics might constitute action items.)
Instructor 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).
### Key

- **Green** = PD goal successfully accomplished.
- **Yellow** = PD Goal identified, but not yet accomplished.
- **Red** = PD goal not yet accomplished AND due date is passed.

<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>
http://learningcenter.nsta.org/PortfolioTool/pdfs/sample_teacher_portfolio_report.pdf
Michael Petrescu's Professional Development Portfolio

Report Period:
2011, 2012

Index

<table>
<thead>
<tr>
<th>My Content Knowledge</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goal: Review / Improve Physical Science knowledge</td>
<td>3</td>
</tr>
<tr>
<td>Action Item: Gravity and Orbits SciPack</td>
<td>3</td>
</tr>
<tr>
<td>Evidence File: Gravity and Orbits SciPack Certificate</td>
<td>3</td>
</tr>
<tr>
<td>Reflection</td>
<td>4</td>
</tr>
<tr>
<td>Goal: Review / refresh Physical Science knowledge about the Solar System</td>
<td>4</td>
</tr>
<tr>
<td>Action Item: Web Seminar: The Search for other Earths</td>
<td>4</td>
</tr>
<tr>
<td>Evidence File: Searching for other Earths certificate</td>
<td>5</td>
</tr>
<tr>
<td>Reflection</td>
<td>5</td>
</tr>
<tr>
<td>My Content Pedagogy</td>
<td>6</td>
</tr>
<tr>
<td>Goal: NASA’s Lesson / Activity held in the classroom</td>
<td>6</td>
</tr>
<tr>
<td>Action Item: Gravity Lesson Plan</td>
<td>6</td>
</tr>
<tr>
<td>Evidence File: Picture 1 Group 007</td>
<td>6</td>
</tr>
</tbody>
</table>
## Goal: Review / Improve Physical Science knowledge

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Where Am I Now:</td>
<td>Extensive and comprehensive packet, helped me to take a closer and deeper look at gravity and its laws. Completed.</td>
</tr>
</tbody>
</table>

## Action Item: Gravity and Orbits SciPack

<table>
<thead>
<tr>
<th>Action Items:</th>
<th>Successfully complete a college/university/NSTA or other professional organization course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Justification:</td>
<td>Refreshing knowledge about gravity, law of universal gravity, Newton's laws and orbits</td>
</tr>
<tr>
<td>Evidence:</td>
<td>Certificate earned</td>
</tr>
</tbody>
</table>

## Evidence File: Gravity and Orbits Scipack Certificate

<table>
<thead>
<tr>
<th>Name:</th>
<th>gravityandorbitsscipack.jpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Gravity and Orbits Scipack Certificate</td>
</tr>
<tr>
<td>Size:</td>
<td>209.06 KB</td>
</tr>
<tr>
<td>Date Uploaded:</td>
<td>3/13/2012 4:55:02 PM</td>
</tr>
<tr>
<td>Desc:</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Observing / Assessing students' work</td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Size</td>
<td>855.13 KB</td>
</tr>
<tr>
<td>Date Uploaded</td>
<td>3/15/2012 12:59:28 AM</td>
</tr>
</tbody>
</table>

| Name                    | DSC06605.JPG                        |
| Title                   | Samples of student work (1)         |
| Size                    | 672.63 KB                            |
| Date Uploaded           | 3/15/2012 1:02:25 AM                 |
| Desc                    |                                     |

| Name                    |                                     |
| Title                   |                                     |
| Size                    |                                     |
| Date Uploaded           |                                     |
| Desc                    |                                     |
Overview
Personalized Professional Learning

• A community to share ideas, ask questions, and earn points

• Practical tools to help teachers organize, personalize, & document growth

• Over 3,000 free resources
In the NLC you can…

• Access resources to increase your pedagogical content knowledge (earn certificates)

• Create and share collections with colleagues (publish in the NLC)

• Join in discussions with science educators (learn from/mentor others)

• Get a record of all your PD activities to add to your Portfolio (give yourself credit!)
What’s free in the NLC?

- NLC account *(you DO NOT need to be a member of NSTA to create one!)*
- Over 3,000 resources
  - Science Objects
  - Web Seminars (live, archives, and podcasts)
  - Journal Articles (~1,100)
  - e-Book chapters (~200)
  - Symposia Archives
- All PD tools
- All public collections
- All public community forums
Science Simulations and Animations in Science Objects
How to add individual resources and/or collections to your “Library?”
Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 8205 Activity Points!

You've recently earned:
- Sapphire Aggregator
- Add Personal Resources

You're close to earning:
- Diamond Commenter
- Post 14 more comment/questions

Activity Progress Bar
Your Activity Matters!
It Donates Produce!

With these resources you can build your professional development plan, track your activities and assess your progress. You can start at "Explore Learning Opportunities" below or by creating your game plan with the PD Plan and Portfolio tool. You may also review an archived Web Seminar or a multimedia overview of the Learning Center.

Explore Learning Opportunities
- See all FREE Lesson Plans
- See all FREE Resources
There are over 3,000 collections created by users.
Nature of Light: Light as Waves
Grade Level: Elementary School, Middle School

Science Object: Light as Waves
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 four Science Objects in the Nature of Light SciPack. It provides conceptual and real world understanding of the idea that waves (including sound and acoustic waves, waves on water, and light waves) have energy and can transfer energy when they interact with matter. [view full summary]

Price: Free via Your Subscription

Nature of Light: Light and Color
Grade Level: Elementary School, Middle School

Science Object: Light and Color
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 third of four Science Objects in the Nature...
NLC Activity Points: NSTA Resources

Earn 10 Activity Points for each NSTA resource that you add to your Library.

You will earn your first badge after adding 5 resources.
Add resources to your “Library” now
Using the Library
Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 8205 Activity Points!

You've recently earned:
- Sapphire Aggregator
- Add Personal Resources

You're close to earning:
- Diamond Commenter
- Post 14 more comment/questions

Activity Progress Bar
- Your Activity Matters!
- It Donates Produce!

Kathryn Kennedy
Last Week's Top Disseminator

Featured PD Resource
- Science Objects
- Explaining Matter with Elements, Atoms, and Molecules...

With these resources you can build your professional development plan, track your activities and assess your progress. You can start at “Explore Learning Opportunities” below or by creating your game plan with the PD Plan and Portfolio tool. You may also review an archived Web Seminar or a multimedia overview of the Learning Center.
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.
Upload your own resources to *My Library*

- Word docs
- Excel files
- PPT pres.
- URLs
- Images
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.

Collections enable you to group together and organize your NSTA resources. You may also share collections with friends and colleagues.

To create a new collection:
- Click “Start a New Collection” below, fill in the brief form and click “Submit”
- Choose items from your library, our resource search page, or upload your own files to add to the collection
- NOTE: NSTA resources must first be added to your library before they can be added to a collection
- For more help view the My Library Help Guide (1.24 MB PDF) to see screen shots and step-by-step instructions

### My Collections

<table>
<thead>
<tr>
<th>Title</th>
<th>Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate Change</td>
<td>9/3/2010</td>
</tr>
<tr>
<td>Climate Change Here and Now:</td>
<td>9/10/2010</td>
</tr>
<tr>
<td>Earth Day PD Resources for Teachers of Science</td>
<td>4/12/2010</td>
</tr>
<tr>
<td>FDA/CFSAN: Food Irradiation</td>
<td>9/10/2010</td>
</tr>
<tr>
<td>NSTA REPORTS Freebies Column: Nov. 2010</td>
<td>9/20/2010</td>
</tr>
</tbody>
</table>

### Collections Shared With Me

<table>
<thead>
<tr>
<th>Title</th>
<th>Created</th>
<th>Shared by</th>
<th>Shared</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate Change Here and Now:</td>
<td>9/10/2010</td>
<td>The Learning Center</td>
<td>9/10/2010</td>
</tr>
<tr>
<td>FDA/CFSAN: Food Irradiation</td>
<td>9/10/2010</td>
<td>The Learning Center</td>
<td>9/10/2010</td>
</tr>
<tr>
<td>Summer PD Resources</td>
<td>5/4/2010</td>
<td>Flavo Mendez</td>
<td></td>
</tr>
</tbody>
</table>

For more help view the My Library Help Guide (1.24 MB PDF) to see screen shots and step-by-step instructions.
NLC Activity Points: Disseminator

Earn 10 Activity Points for each collection you share with an individual.

Earn 25 Activity Points for each collection you make public.

You will receive the first disseminator badge after sharing 1 collection with an individual.
The NSTA Learning Center

Professional Learning Community

Collaborate with like-minded individuals
Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 8205 Activity Points!

You've recently earned:
- Sapphire Aggregator
  Add Personal Resources

You're close to earning:
- Diamond Commenter
  Post 14 more comment/questions

Activity Progress Bar

Your Activity Matters!
It Donates Produce!

Kathryn Kennedy
Last Week's Top Disseminator

With these resources you can build your professional development plan, track your activities and assess your progress. You can start at “Explore Learning Opportunities” below or by creating your game plan with the PD Plan and Portfolio tool. You may also review an archived Web Seminar or a multimedia overview of the Learning Center.
# Community Forums
*(asynchronous)*

<table>
<thead>
<tr>
<th>Forum</th>
<th>Topics</th>
<th>Last Post</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary Science</td>
<td>68</td>
<td>by Margaret Hunter Today, 1:06 AM Literature text to Support Science Instruction</td>
</tr>
<tr>
<td>Life Science</td>
<td>89</td>
<td>by Carolyn Mohr yesterday, 10:23 PM The human appendix maybe we need that bacteria bag</td>
</tr>
<tr>
<td>Physical Science</td>
<td>55</td>
<td>by Tina Harris today, 12:21 PM Tidal Energy: Researches and Actual Existing Technology</td>
</tr>
<tr>
<td>Earth and Space Science</td>
<td>116</td>
<td>by Carolyn Mohr Fri Jan 06, 2012 1:55 PM How Objects Move in Space</td>
</tr>
<tr>
<td>General Science and Teaching</td>
<td>197</td>
<td>by Tina Harris today, 11:07 AM Team Project and Projects</td>
</tr>
<tr>
<td>Professional Development</td>
<td>41</td>
<td>by Daiz Vasquez yesterday, 9:37 PM 2012 NSTA Conference-Indy Here We Come!</td>
</tr>
<tr>
<td>Evaluation and Assessment</td>
<td>24</td>
<td>by Tina Harris today, 11:41 AM Implementing Assessments for Culturally and Linguistically Diverse Scholars</td>
</tr>
<tr>
<td>Research in Science Education</td>
<td>16</td>
<td>by Carolyn Mohr yesterday, 10:06 PM Teachers as Researchers</td>
</tr>
<tr>
<td>Chemistry</td>
<td>25</td>
<td>by Tina Harris today, 11:58 AM Low Cost Chemistry Labs</td>
</tr>
<tr>
<td>STEM</td>
<td>10</td>
<td>by Patricia McGinnis Fri Jan 06, 2012 3:38 PM Engineering and the Environment</td>
</tr>
<tr>
<td>Topic</td>
<td>Last Post</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>How states handle PD</td>
<td>4 Replies by Carolyn Mohr Wed Dec 07, 2011 12:14 PM</td>
<td></td>
</tr>
<tr>
<td>Classroom management</td>
<td>10 Replies by Mary Hannig Wed Dec 07, 2011 12:13 AM</td>
<td></td>
</tr>
<tr>
<td>background in Science</td>
<td>2 Replies by Tammi Kreckel Mon Dec 05, 2011 2:53 PM</td>
<td></td>
</tr>
<tr>
<td>WOW! And it is Free!!</td>
<td>48 Replies by Lorrie Armfield Fri Dec 02, 2011 9:30 PM</td>
<td></td>
</tr>
<tr>
<td>Learning and Growing as Teachers</td>
<td>2 Replies by Carolyn Mohr Fri Dec 02, 2011 2:30 PM</td>
<td></td>
</tr>
<tr>
<td>When you leave your students in the hands of a substitute teacher.</td>
<td>40 Replies by Tammi Kreckel Thu Dec 01, 2011 10:11 PM</td>
<td></td>
</tr>
<tr>
<td>What advice do you have? What are your “pet peeves”? What do you</td>
<td>374 Views</td>
<td></td>
</tr>
<tr>
<td>appreciate the most as a professional?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Free NSTA Webseminars</td>
<td>45 Replies by Alyce Dalzell Wed Nov 30, 2011 9:07 PM</td>
<td></td>
</tr>
</tbody>
</table>
While looking for something else I came across a great Podcast (7 minutes long) which provided insight on being a scientists and using the scientific method. It is a must for a teacher and students to hear. I suggest your listen to this scientist describe his involvement with the scientific method and then share your thoughts on this as well.

Attachments

Podcast: Scientific Method (Podcast)

---

What an awesome discussion. I have spent time reading, researching and reflecting on this thread. There is part of the discussion that I think I disagree with:

"the scientific method is great for young children who have not developed a strong cognitive ability to think. It the same as you have to learn to walk before you can run. The scientific method is a way for them to gain an understanding of the process. However, as they grow older and have more experiences and make more decisions they should be weaned off this and introduced to scientific inquiry."

I believe all children, even very young children can think scientifically and therefore engage in the inquiry process. I am attaching an article which talks about young children doing science inquiry and a graphic from one of my favorite authors, Karen Worth.

So what do others think?
NLC Activity Points: Commenter

Earn 10 Activity Points for each post you make in the community forums.

You will receive the first commenter badge after making 5 posts.
Welcome to Your Personalized Learning Web Space!

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You're close to earning: Diamond Commenter
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activity progress bar

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About Me: I am the NSTA Learning Center Senior Director. I hope the portal is useful in enhancing your professional learning beyond the face-to-face experiences in which you participate. Prior to working at NSTA, I worked on NASA’s Hubble Space Telescope project and at the Maryland Science Center.

Affiliation: National Science Teachers Association

Location: Arlington, VA
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**View Your Activity Log**

<table>
<thead>
<tr>
<th>Date</th>
<th>Points</th>
<th>Description</th>
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<tbody>
<tr>
<td>Yesterday, 6:08 PM</td>
<td>10</td>
<td>Add a personal resource to your LC library</td>
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<tr>
<td>Mon Apr 16, 2012 2:03 AM</td>
<td>10</td>
<td>Add an NSTA resource to your Learning Center Library</td>
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<tr>
<td>Sun Apr 15, 2012 9:15 AM</td>
<td>10</td>
<td>Post a comment/question on Learning Center Discussion Forum</td>
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<td>Sat Apr 14, 2012 10:13 AM</td>
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<tr>
<td>Sat Apr 14, 2012 12:15 AM</td>
<td>10</td>
<td>Post a comment/question on Learning Center Discussion Forum</td>
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</table>
Thank you for attending tonight...about your SciPack
Don’t forget the web seminar evaluation
and your FREE SciPack

<table>
<thead>
<tr>
<th>Earth and Space</th>
<th>Physical</th>
<th>Life</th>
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<tbody>
<tr>
<td>- Earth, Sun &amp; Moon</td>
<td>- Force &amp; Motion</td>
<td>- Cell Structure &amp; Function</td>
</tr>
<tr>
<td>- Gravity &amp; Orbits</td>
<td>- Energy</td>
<td>- Coral Reef Ecosystems</td>
</tr>
<tr>
<td>- The Solar System</td>
<td>- Nature of Light</td>
<td>- Science of Food Safety</td>
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<tr>
<td>- The Universe</td>
<td>- Chemical Reactions</td>
<td>- Resources &amp; Human Impact</td>
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<tr>
<td>- Weather &amp; Climate</td>
<td>- Electric and Magnetic Forces</td>
<td>- Nutrition</td>
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<tr>
<td>- Rock Cycle</td>
<td>- Atomic Structure</td>
<td>- Cell Division &amp; Differentiation</td>
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<td>- Plate Tectonics</td>
<td>- Explaining Matter</td>
<td>- Cells &amp; Chemical Reactions</td>
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<tr>
<td>- Earth’s Changing Surface</td>
<td>with Elements, Atoms &amp; Molecules</td>
<td>- Flow of Matter and Energy in Ecosystems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Interdependence of Life</td>
</tr>
</tbody>
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10-Hour, self-paced, learning experience

SciPack

3-5 Science Objects

Assessment and Certification

Content Mentor

Email Support

Pedagogical Implications
My PD Record and Certificates

The PD Record tool allows you to generate a PDF report listing your completed NSTA professional development (PD) experiences. You receive certificates as you complete experiences at NSTA Conferences, Web Seminars, Online Short Courses, Symposia, and NSTA Academies. You also receive a certificate when you complete a SciPack.

You may also use our free PD Plan & Portfolio tool to plan and track your PD. Generate and store reflections about your PD experiences, upload images, student work samples, certificates, or point to URLs to document your growth. Generate a custom report (PDF document) to enhance your NSTA transcript.

If you have questions specifically about your Conference Transcript please contact Beverly Shaw at bshaw@nsta.org or via phone at 703-312-9232. For other questions, please contact the Help Desk at learningcenterhelp@nsta.org.

<table>
<thead>
<tr>
<th>Symposia</th>
<th>SciPack Certificates</th>
<th>Web Seminars</th>
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<tr>
<td>Conferences</td>
<td>Regional Certificates</td>
<td>Web Seminars</td>
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<tr>
<td>(NAEP) 101: Learning more about the NAEP 2009 Science Results</td>
<td>Certificate</td>
<td>Hours</td>
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<td>Celebrating Astronomy: A Star's Story</td>
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<td>View</td>
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</table>
Flavio Mendez
Senior Director
NSTA Learning Center

PH: 703-312-9250
Email: fmendez@nsta.org

Questions?
Thank you to the sponsor of tonight's Web Seminar:

GE Foundation

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Welcome to Your Personalized Learning Web Space!

Paul, you've already earned **1335 Activity Points!**

You've recently earned:
- **Ruby Aggregator**
- **Add Personal Resources**

You're close to earning:
- **Ruby Commenter**
- **Post 9 more comments/questions**

Activity Progress Bar

**Your Activity Matters!**
It reduces your carbon footprint!

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**Explore Learning Opportunities**
- [Advanced Search](#)
- See all [FREE Lesson Plans](#)
- See all [FREE Resources](#)

By Subject | By Grade Level | By State Standards
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Dr. Gerry Wheeler, Interim Executive Director
Zipporah Miller, Associate Executive Director
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