



Planning your Summer Professional Learning Experiences

Presented by: Flavio Mendez

May 12, 2011

8:15 p.m. -9:45 p.m. Eastern time

The **NSTA** Learning Center

Planning your Summer Professional Learning Experiences

May 12, 2011

<http://learningcenter.nsta.org>

Flavio Mendez
Senior Director

Agenda

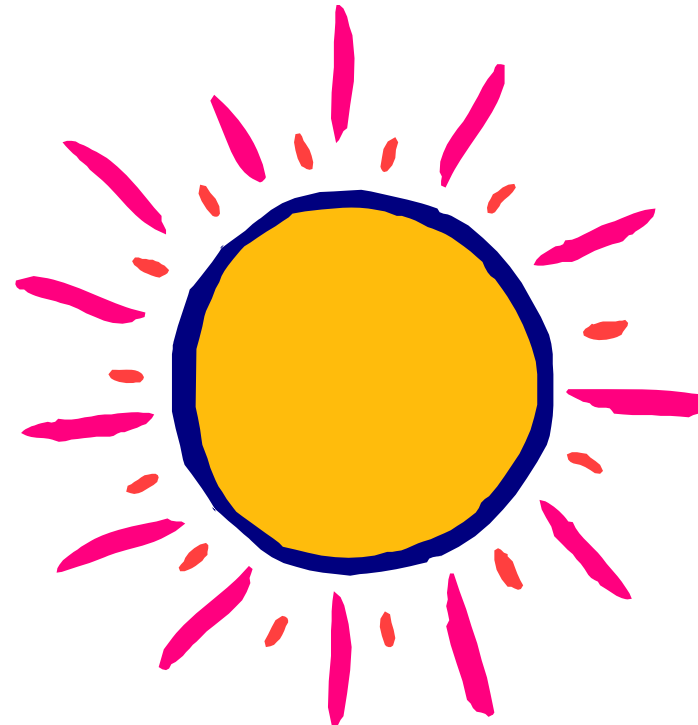
- Your summer PL plans
- PD Plan & Portfolio Tool
- The NSTA Learning Center
- LC Resources, Library, and Forums



<http://learningcenter.nsta.org>

An opportunity:

- Relax
- Reflect
- Review
- Study



2010 National Education Technology Plan

Through online learning systems, teachers may enhance their learning through **blending the best of onsite PD with online PD** that provides **immediacy, convenience, self-direction, and collaboration** with other colleagues and experts via professional learning communities.

For teachers to effectively facilitate using interactive resources, learning systems, and connectedness to online communities, **teachers need to experience it firsthand as part of their own learning and professional development.**

US Department of Education (2010). *Transforming American education: Powered by Technology*. Washington, DC: Office of Educational Technology.



What are your
summer
professional
learning plans?



To enhance my...

Content knowledge	
Content pedagogy	
Assessment/evaluation skills	
Technology skills	
Leadership skills	
Management skills	
Other	

What are you going
to do to achieve
your summer
professional
learning plans?



I plan to...

6-to-8 week university/community college course	
2-week intensive course at local university, government program, or district office	
DIY, self-paced online resources	
Professional conferences/out-of-state programs	
Local (one-day or 2-3 hours) workshops	
Read	
Other	

How are you going
to document your
professional
learning
experiences?



The **NSTA** Learning Center

My PD Plan & Portfolio Tool

▶ Back to NSTA.org

The NSTA Learning Center

My PD Plan and Portfolio Tool

Tool Overview

The NSTA Learning Center

visit the Learning Center at <http://learningcenter.nsta.org>



▶ Play 1:1 Mute

http://learningcenter.nsta.org/PortfolioTool/videos/portfolio_overview/index.html

Welcome Select Goal Categories Define/Measure Goals View Status Generate Report

3

Identify Evidences

Portfolio Manager

- My Content Knowledge
 - (goal) - Earth and space science content knowledge.
 - Reflection
- My Technology Skills

1

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 6-8.

2

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The NSTA Learning Center

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Learning Resources
& Opportunities

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Forums

Education
Administrator

My Learning Center

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Welcome

My
Profile

My
Library

My
PD Indexer

My PD Plan
and Portfolio

My PD Record
and Certificates

My
Calendar

My
Notepad

New: Discussion
Forums

Help
Desk

Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned **6100 Activity Points!**

You've recently earned:



Ruby Aggregator

[Add Personal Resources](#)

You're close to earning:



Sapphire Commenter

[Post 3 more comment/questions](#)

Be sure to update your profile and review your points & badges!

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.

Activity Progress Bar

Your Activity Matters!

It saves
the
Rain
Forest!



NEW LIVE SUPPORT



Online
Advisors
now
available!

Featured PD Resource

**NSTA ONLINE
SHORT COURSES**

Energy, Summer 2011

Explore Learning Opportunities

[Advanced Search](#)

[See all FREE Lesson Plans](#)

[See all FREE Resources](#)



**LIVE SUPPORT
ONLINE**

Click here

Name your Portfolio; your name is the default

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The NSTA Learning Center

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[Education Administrator](#)

My Learning Center Welcome, Michael :: [Log Out](#)

[Welcome](#)
[My Profile](#)
[My Library](#)
[My PD Indexer](#)
[My PD Plan and Portfolio](#)
[My PD Record and Certificates](#)
[My Calendar](#)
[My Notepad](#)
[New: Discussion Forums](#)
[Help Desk](#)

My PD Plan & Portfolio

My Professional Development Plan & Portfolio allows you to create a plan that outlines your PD experiences over time. You may upload portfolio files, such as samples of student work, certificates of completion, or augmented lesson plans, and generate written reflections that demonstrate your growth as you complete your plan.

Please type name to create Portfolio:

[Create Portfolio](#)

:: Explore Learning Opportunities
 • [Advanced Search](#)

• [See all FREE Lesson Plans](#)
 • [See all FREE Resources](#)

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Click here →

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

Select Goal Categories

Define/Measure Goals

View Status

Generate 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 Goal Categories

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 PDP categories to make visible in your Portfolio

Visible	Category	Description
<input type="checkbox"/>	My Content Knowledge	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.
<input type="checkbox"/>	My Content Pedagogy	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.
<input type="checkbox"/>	My Assessment/Evaluation Skills	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.

:: Define/Measure Goals

Portfolio Manager

- My Content Knowledge
- My Technology Skills

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](#)

You are currently using **0%** of your **1 GB**



Welcome

Select Goal Categories

Define/Measure Goals

View Status

Generate Report

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

Portfolio Manager

My Content Knowledge

(goal) - Earth and space science content knowledge.

Reflection

My Technology Skills

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 6-8.

You are currently using **0%** of your **1 GB**

My digital evidence might be...

Course transcript	
Certificate of participation	
Scanned agenda; photos	
Samples of student work	
Personal reflections	
Completed assignments	
Reports, reviews	
Other	

Welcome

Select Goal Categories

Define/Measure Goals

View Status

Generate Report

Identify Evidence

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.)

Support Evidence

Portfolio Manager



Category: My Content Knowledge

Goal: Earth and space science content knowledge.

Evidence: Learning Center's SciPacks (2)

My Tasks:



[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**



Welcome

Select Goal Categories


Define/Measure Goals

View Status

Generate Report

View Status

Key

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

Category	Goal	Action	Expected Date of Goal Completion	Status
My Content Knowledge	Earth and space science content knowledge.	 Edit Reflection	8/27/2010	

Welcome

Select Goal Categories

Define/Measure Goals

View Status

Generate Report

Generate Report

- ☒ Portfolio Manager
 - ☒ My Content Knowledge
 - ☒ (goal) - Earth and space science content knowledge.
 - ☒ (evidence) - Learning Center's SciPacks (2)
 - ☒ (evidence) - Summer Workshop
 - ☒ Reflection
 - ☒ My Technology Skills

My Tasks



Instructions

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](#)

http://learningcenter.nsta.org/PortfolioTool/pdfs/sample_teacher_portfolio_report.pdf



Let's pause for questions about the Learning Center's PD Plan & Portfolio tool



Personalized Professional Learning

- A **community** to share ideas, ask questions, and earn points
- Practical **tools** to help teachers organize, personalize, & document growth
- Over 6,200 **resources**



The screenshot shows the homepage of The NSTA Learning Center. At the top, there's a navigation bar with links: Back to NSTA.org, Contact Us, Help, and Feedback. Below this is the main header with the NSTA Learning Center logo and a search bar. A secondary navigation bar includes links for Home, My PD Tools, Subjects, Learning Resources & Opportunities, Discussion Forums, and Education Administrator.

The main content area features a "Welcome to Your Professional Development" section. It describes the Learning Center as NSTA's e-professional development (PD) portal, offering access to over 5,400 resources, with over 1,600 being free. It mentions tools like My Library, My PD Record, and My PD Plan and Portfolio. A "Create your free account" link is provided. To the right of this text is a small image of a smiling woman.

Below the welcome message, there are two "NEW" announcements:

- Earn as you learn!**: Collect points and badges as you aggregate, comment, and complete PD. Create collections with your own resources and share with others!
- Live Support!**: Chat with Online Advisors while navigating your professional development. Simply log in or register to get started.

On the right side of the page, there is a "Login" section with fields for E-mail and Password, and a "LOGIN" button. Below the login fields are links for "I'm an NSTA member but I don't have a password", "Register Now for Free", and "Lost password?". There are also links for "RSS" and "SHARE" (Facebook, Twitter, LinkedIn, YouTube).

The bottom section is titled "Explore Learning Opportunities" and includes links for "See all FREE Lesson Plans" and "See all FREE Resources". It features three columns:

- By Subject**: Earth & Space Science, Life Science, Physical Science.
- By Grade Level**: Elementary, Middle School, High School, College.
- By State Standards**: A dropdown menu labeled "Select your state to begin:" with the option "Choose a state".

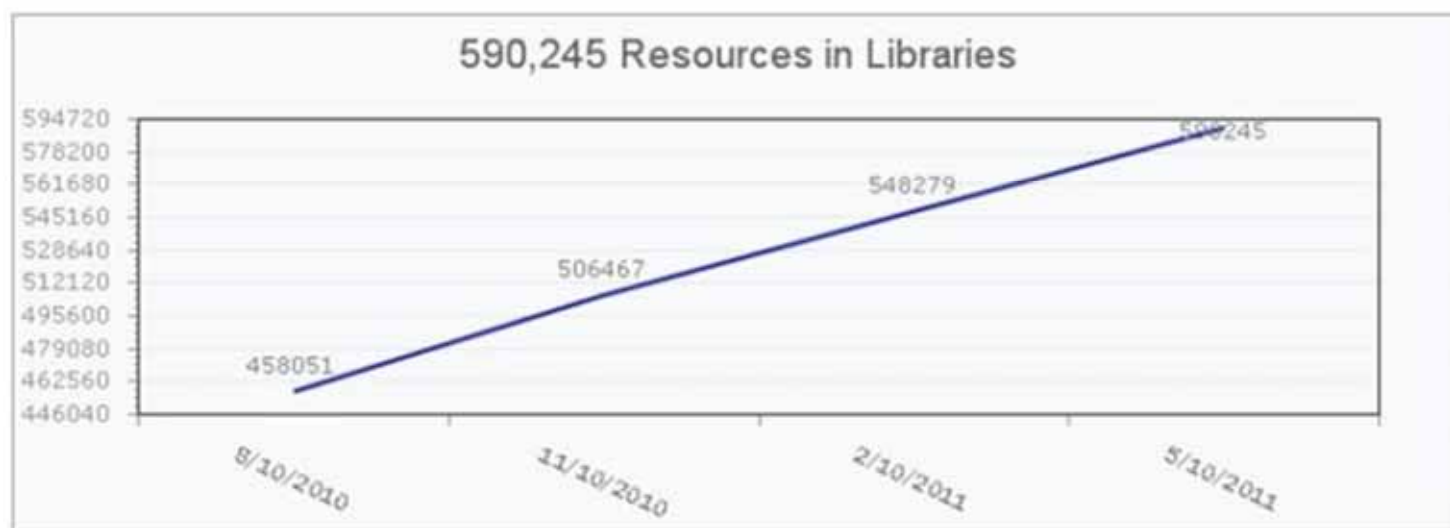
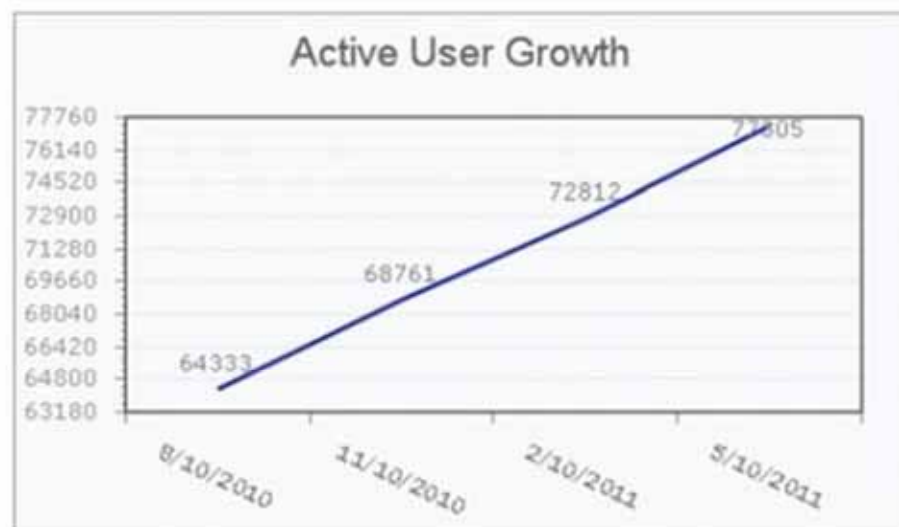
On the right side of the bottom section, there are two more boxes:

- NSTA Featured Resources**: Promoting "NSTA SciPacks" with the tagline "You Deserve the Credit!".
- Most Popular Resources**: A list of resources including "Cell Structure and Function: Cells - The Basis of Life", "Plate Tectonics: Layered Earth", "Universe: The Sun as a Star", and "Energy: Thermal Energy, Heat, and Temperature".

You are not alone...

May 2011:

Over 77,300 active users with over 590,000 resources across their libraries



The NSTA Learning Center

Search the Learning Center

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[My PD Tools](#)

[Subjects](#)

[Learning Resources
& Opportunities](#)

[Discussion
Forums](#)

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My Learning Center

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[My
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[My PD Plan
and Portfolio](#)

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and Certificates](#)

[My
Calendar](#)

[My
Notepad](#)

[New: Discussion
Forums](#)

[Help
Desk](#)

Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 6190 Activity Points!

You've recently earned:



Ruby Aggregator
[Add Personal Resources](#)

You're close to earning:



Sapphire Commenter
[Post 3 more comment/questions](#)

Activity Progress Bar

Your Activity Matters!

It saves
the
Rain
Forest!



Be sure to update your profile and review your points & badges!

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NEW LIVE SUPPORT



Online
Advisors
now
available!

Featured PD Resource

**NSTA ONLINE
SHORT COURSES**

Energy, Summer 2011

Explore Learning Opportunities

[Advanced Search](#)

[See all FREE Lesson Plans](#)

[See all FREE Resources](#)



**LIVE SUPPORT
ONLINE**

[Click here](#) →

I have used/attended the following LC resources/opps:

Science Objects	Journal Articles	Web Seminars	
Web Seminar Archives	Podcasts	Online Short Courses	SciPacks
e-Books	SciGuides	e-Chapters	

The NSTA Learning Center

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**LIVE SUPPORT
ONLINE**

[Click here](#) →



I have used the following LC tools:

My Profile	My Library	My PD Indexer	My PD Plan & Portfolio
My PD Record and Certificates	My Calendar	My Notepad	Discussion Forums

The NSTA Learning Center

Search the Learning Center

[Home](#)

[My PD Tools](#)

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Welcome

[My
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ONLINE**

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:: Learning Center Profile

[Edit My Community Profile](#)



Michael

[0 LC Activity Points](#)

Complete this space and upload your thumbnail image:

Your profile is a professional reflection for others to learn about you as they view your contributions to this learning community. As you create, rate and share resources and collections of resources you will earn points and badges that will travel with you and reflect your contributions to the community. You are not an island unto yourself, but connected to a larger group of like-minded colleagues at various levels of experience. Get connected and engaged by contributing your ideas to the [discussion forums](#), uploading your best resources into a [public collection for others to try](#), and if you have a question, be sure to tap the [live online advisors](#).

[So let's get started!](#) Upload an image of yourself, let us know who you are, and become part of this dynamic community and the resources we can share amongst each other!

Your activity makes contributions like these



[Give a Bowl of Rice](#)



[Plant a Seed](#)



[Plant a Giving Tree](#)



YOU'RE CLOSE TO EARNING



Onyx Commenter

[Post 5 more comment/questions](#)



NSTA Resource Activator

[Add 5 more NSTA Resources](#)

[View all badges & activities](#)

Badges Yet to be Earned

[Visit the activities page](#) to learn how you can earn points and badges. The NSTA Learning center awards badges based on activities performed within the website. Pursuing badges is a great way to explore all the resources and professional development tools the Learning Center has to offer.



Community Profile

Any information shared in this Community Profile section is publicly available to all registered users of the Learning Center.



[Change Profile Pic](#)

School / Work Affiliation

About Me

Location

IM Screen Name

Twitter

Facebook

Skype Name

☒ Allow other Learning Center users to send me Private Messages. My email address will not be shared.

Edit your Learning Center Community Profile





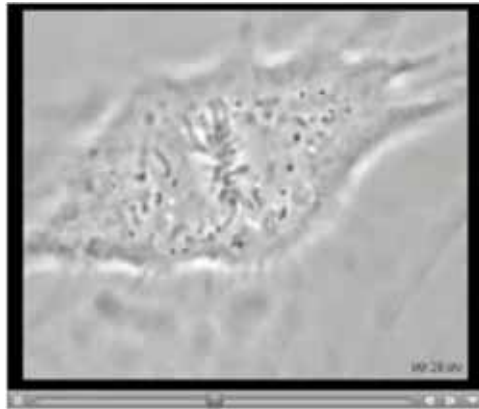
The **NSTA** Learning Center

e-PD Resources



- Two-hour **free** online learning experience in a particular topic
- Based on **science literacy** goals in science education standards
- Eighty **(80)** Science Objects currently available






Videos



The petri dish after overnight incubation shows colonies of bacterial growth.


Slide shows



Hands-On Activity

[Click here](#) for a hands-on activity that allows you to track cells in a growing root to see where the largest region(s) of growth occur.

Hands-on activities

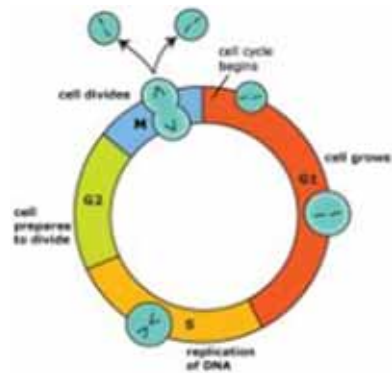


Common Student Preconceptions

Middle and high school students often have difficulty recognizing the dynamic nature of mitosis and its specific order of events (Kindfield, 1994). They have limited, confused, and inconsistent understandings about cell division; make little distinction between mitosis and meiosis, and do not fully understand the processes, purposes, or products of cell division (Knippels et al., 2005).

A discussion of common student preconceptions by grade band is available in the Pedagogical Implications section of the [Cell Division and Differentiation SciPack](#).

Preconceptions boxes

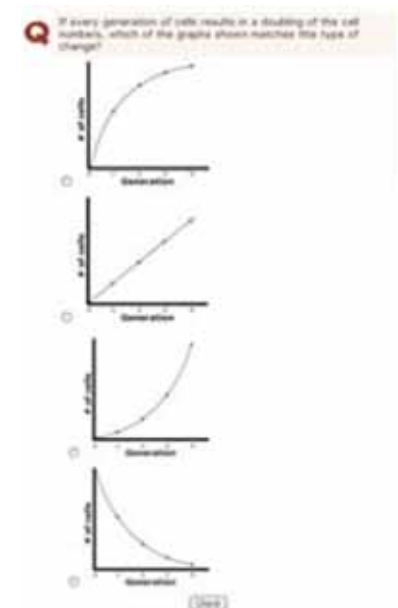


Images

Elements of a Science Object: 2-hour learning experience



Simulations



Assessment

Example Simulations and Animations

NSTA SCIENCE SIMULATION: Make a Reef

CONTROL PANEL

13	23 - 25 °C	No Light	41 - 50 ppt
8	17 - 23 °C	Murky	25 - 40 ppt
4	10 - 17 °C	Clear	10 - 24 ppt
pH	Temperature	Light	Salinity

SUBMIT
RESET

NSTA SCIENCE SIMULATION: Seismic Waves

CONTROL PANEL

START	TEST FOR:	Top Layer	Bottom Layer
STOP	<input checked="" type="checkbox"/> Rigidity	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
RESET	<input type="checkbox"/> Density	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Low

VELOCITY
SLOW → FAST

NSTA SCIENCE SIMULATION: Air Track

CONTROL PANEL

START	Push Force	Cart A Mass	Cart B Mass
CONTINUE	<input checked="" type="checkbox"/> 1 N	<input checked="" type="checkbox"/> 1 kg	<input checked="" type="checkbox"/> 1 kg
RESET	<input type="checkbox"/> 2 N	<input checked="" type="checkbox"/> 2 kg	<input checked="" type="checkbox"/> 2 kg

MITOSIS MATCH-UP

Your Challenge:
Drag each cell from the bottom, into the area that indicates its order in cell division. Position "1" marks the beginning of cell division while position "7" will be the completion of cell division.

Restart
Submit

NSTA SCIENCE SIMULATION: Horizontal Balloons

CONTROL PANEL

START	PAYLOAD
RESET	BALLOONS ← → WASHERS ← →

NSTA INTERACTIVE: Identifying Products

A) Iron(III) chloride + sodium phosphate

$$\text{FeCl}_3 + \text{Na}_3\text{PO}_4 \rightarrow \text{ } + \text{ }$$

FeCl₃ H₃PO₄ H₂S FePO₄ Check
H₂O K₂SO₄ BaSO₄ NaCl Reset

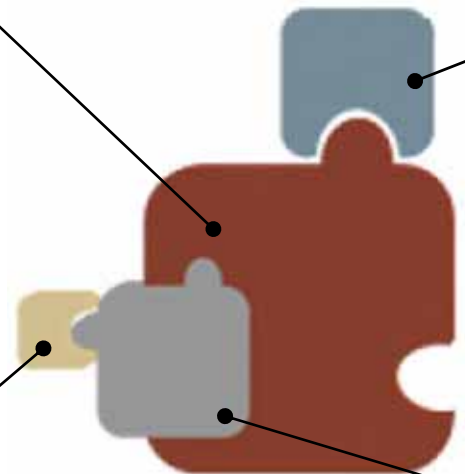


3-5 Science Objects

10-Hour, self-paced, learning experience



Assessment and Certification



SciPack



Content Mentor
Email Support



Pedagogical
Implications

Which SciPack title will you choose at the end of the program?

Earth, Sun, and Moon	Gravity and Orbits	The Solar System	The Universe	Oceans Effect on Weather and Climate	Rock Cycle
Plate Tectonics	Earth's Changing Surface	Force and Motion	Energy	Nature of Light	Chemical Reactions
Electric and Magnetic Forces	Cells Structure and Function	Coral Reef Ecosystems	Science of Food Safety	Resources and Human Impact FREE Today!	Nutrition
Cell Division and Differentiation	Explaining Matter with Elements, Atoms, and Molecules	Atomic Structure			

Other e-PD resources:

- SciGuides
- Web Seminar Archives
- Podcasts
- Journal Articles
- eBook Chapters
- eBooks
- Online Short Courses



How to add resources to your “Library?”



The NSTA Learning Center

Search the Learning Center



[Home](#)

[My PD Tools](#)

[Subjects](#)

[Learning Resources
& Opportunities](#)

[Discussion
Forums](#)

[Education
Administrator](#)

My Learning Center

Welcome

[My
Profile](#)

[My
Library](#)

[My
PD Indexer](#)

[My
Calendar](#)

[My
Notepad](#)

[New: Discussion
Forums](#)

[Help
Desk](#)

Welcome to Your Personalized Learning Center

Albert, you've already earned **1555 Activity Points**

You've recently earned:



Gold Indexer

[Complete Indexers](#)

You're close to earning



Sapphire Comet

[Post 16 more comments](#)

Be sure to **update your profile** and **review your progress**

With these resources you can build your professional portfolio 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.

Science Objects
SciPads
SciGuides
Symposia
Symposia Archives
Professional Development Institutes
Web Seminars
Web Seminar Archives
Podcasts
Online Courses
NSTA Journal Articles
NSTA Press Books

Welcome, Albert

[View Cart](#) | [Admin](#) | [Log Out](#)

[My
Calendar](#)

[My
Notepad](#)

Activity Progress Bar

Your Activity Matters!

donates
books and
pencils!



Track your activities

[Explore Learning Opportunities](#)

[Advanced Search](#)

[See all FREE Lesson Plans](#)

[See all FREE Resources](#)

NEW LIVE SUPPORT



Online
Advisors
now
available!

Featured PD Resource



Science
OBJECTS



[Nutrition: What Happens to the Food I Eat?](#)



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OFFLINE**

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[Learning Resources
& Opportunities](#)

[Discussion
Forums](#)

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Administrator](#)

[Learning Center Home](#) > [Advanced Search](#)



LOGIN ::

Welcome, Flavio

[Log Out](#)



[Leave a message](#)

[Hours of Operation](#)

ADVANCED SEARCH

[Advanced Search](#)

ADVANCED SEARCH

[Help](#)

Search all NSTA resources and offerings below:

Keyword:

Author:

Type of Learning Resource:

Grade Level:

- ☒ All Grade Levels
- ☐ Elementary School
- ☐ Middle School
- ☐ High School
- ☐ College
- ☐ Informal Education

Science Discipline:

Price:

LOGIN ::

Welcome, Michael

[Log Out](#)



**LIVE SUPPORT
ONLINE**

[Click here](#) →

[Hours of Operation](#)

ADVANCED SEARCH

[Advanced Search](#)

RESOURCE FILTERS

Narrow your search by subject, grade level, or price

FILTER BY SUBJECT

- ☐ Life Science
- ☐ Earth & Space Science
- ☐ Physical Science

FILTER BY GRADE LEVEL

- ☐ Elementary School
- ☐ Middle School
- ☐ High School
- ☐ College
- ☐ Informal Education

FILTER BY PRICE

- ☐ Free
- ☐ <\$1
- ☐ \$1-\$3
- ☐ \$3-\$5
- ☐ \$5-\$10
- ☐ \$10-\$20

Subject: [All Subjects](#)

Opportunities: [All Opportunities](#)

Individual Resources

Collections Created by Users

Collections Created by NSTA

99 results in Do-It-Yourself Learning
184 results in Books & Articles

7 results in Live Online Seminars & Classes
1 result in In Person Experiences

Sort by:

Results: 1 - 10 of 311

1 2 3 4 5 6 7 8 9 ... 32 Next



Useful and Not So Useful Energy

Science Object

Energy: Useful and Not So Useful Energy



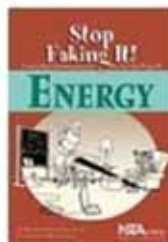
Grade Level: Elementary School, Middle School, High School

Add to Library

Add to PD Plan

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 fourth of four Science Objects in the **Energy** SciPack. It provides a conceptual and real-world understanding of why **energy** in some forms can easily be used but in other forms is difficult to use. **Energy** transformations usually produce some heat, which is transferred to cooler... [\[view full summary\]](#)

Member Price: **Free** Nonmember Price: **Free**



Book Chapter

Recognizing Energy



By: [William C. Robertson, Ph.D.](#)

Grade Level: Elementary School, Middle School

Add to Library

Add to PD Plan

Energy is such a common notion. We talk about it all the time. Should you buy energy-efficient windows? The country needs an **energy** policy. That little kid at the store who screaming at the top of his lungs sure has a lot of energy. This chapter deals with recognizing and defining energy. This free selection includes the Table of Contents and Preface.


Member Price: **Free** Nonmember Price: **Free**

Save time by accessing a collection

LOGIN ::

Welcome, Michael

[Log Out](#)



LIVE SUPPORT
ONLINE

Click here →

[Hours of Operation](#)

ADVANCED SEARCH

[Advanced Search](#)

RESOURCE FILTERS

Narrow your search by subject, grade level, or price

FILTER BY SUBJECT

☒ Life Science

☒ Earth & Space Science

☒ Physical Science

FILTER BY GRADE LEVEL

☒ Elementary School

☒ Middle School


Subject: ▸ [All Subjects](#)


Opportunities: ▸ [All Opportunities](#)


Individual Resources


Collections Created by Users

Collections Created by NSTA

 99 results in Do-It-Yourself Learning



 184 results in Books & Articles

 7 results in Live Online Seminars & Classes

 1 result in In Person Experiences



Sort by:

Results: 1 - 10 of 311 1 2 3 4 5 6 7 8 9 ... 32 Next



Energy: Useful and Not So Useful Energy

Grade Level: Elementary School, Middle School, High School

 Add to Library  Add to PD Plan

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 fourth of four Science Objects in the **Energy** SciPack. It provides a conceptual and real-world understanding of why **energy** in some forms can easily be used but in other forms is difficult to use. **Energy** transformations usually produce some heat, which is transferred to cooler... [\[view full summary\]](#)

Member Price: **Free** Nonmember Price: Free

[Energy: Elementary Collection](#)

A collection of resources for elementary school teachers on the topic of energy

12 Items Not yet reviewed

Created by [Learning Center Online Advisors](#) on 9/30/2010



What's Hot? What's Not?

Type: Journal Article

Grade: Elementary School, Middle School



The Early Years: The Sun's Energy

Type: Journal Article

Grade: Elementary School, Informal Education

[View all 12 items in this collection](#)

[Energy: High Collection](#)

A collection of resources for high school teachers on the topic of energy

13 Items Not yet reviewed

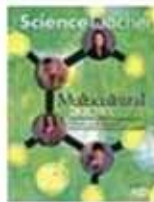
Created by [Learning Center Online Advisors](#) on 9/30/2010



Science Sampler: To heat or not to heat

Type: Journal Article

Grade: Middle School



Career of the Month: Roller Coaster Designer

Type: Journal Article

Grade: High School

[View all 13 items in this collection](#)


Energy: Elementary

A collection of resources for elementary school teachers on the topic of energy

- [Back to All Collections](#)
- [Remove this Collection](#)

Intended for: Elementary school

- Shared by Learning Center Online Advisors
- [Re-Share this Collection](#)
- [Be the first to review this collection](#)

Don't Forget!: Use the buttons next to each item to add these resources to your own library so that you don't lose access to them if the collection owner changes or removes this collection. 

Currently displaying items: 1 - 12 of 12



Archive: Living and Working in Space: Energy, Dec 14, 2006

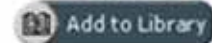
Type: Web Seminar Archive

Grade: Elementary School,Middle School

Summary: The Solar Cycle and Space Weather!

The first of two Web Seminars on the topic of Living and Working in Space: Energy was held on Thursday, December 14, 2006, from 6:30 p.m. to 8:00 p.m. Eastern time. The presenter was Dr. Terry Kucera, Solar Physicist,...

FREE Resource



Energy

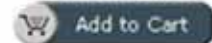
Energy

Type: SciPack

Grade: Elementary School,Middle School,High School

Summary: SciPacks are self-directed online learning experiences for teachers to enhance their understanding of a particular scientific concept and its related pedagogical implications for student learning. Unlimited expert content help via email and a final assessment...

Price: \$39.99



Energy

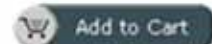
Energy

Type: SciGuide

Grade: Elementary School,Middle School

Summary: SciGuides are a collection of thematically aligned lesson plans, simulations, and web-based resources for teachers to use with their students centered on standards-aligned science concepts.

Price: \$5.95



This SciGuide addresses forms of energy and the transformations...



Different Kinds of Energy

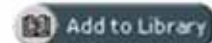
Energy: Different Kinds of Energy

Type: Science Object

Grade: Elementary School,Middle School,High School

Summary: 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 four Science Objects in the Energy SciPack. It provides a conceptual...

FREE Resource



Add resources to your “Library” now





Let's pause for questions about the Learning Center's e-PD resources





The **NSTA** Learning Center

Using the Library

The NSTA Learning Center

Search the Learning Center

[Home](#)

[My PD Tools](#)

[Subjects](#)

[Learning Resources
& Opportunities](#)

[Discussion
Forums](#)

[Education
Administrator](#)

My Learning Center

Welcome, Flavio  [Admin](#) | [Log Out](#)

Welcome

[My
Profile](#)

[My
Library](#)

[My
PD Indexer](#)

[My PD Plan
and Portfolio](#)

[My PD Record
and Certificates](#)

[My
Calendar](#)

[My
Notepad](#)

[New: Discussion
Forums](#)

[Help
Desk](#)

Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 6190 Activity Points!

You've recently earned:



Ruby Aggregator
[Add Personal Resources](#)

You're close to earning:



Sapphire Commenter
[Post 3 more comment/questions](#)

Activity Progress Bar

Your Activity Matters!

It saves
the
Rain
Forest!



Be sure to update your profile and review your points & badges!

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.

NEW LIVE SUPPORT



Online
Advisors
now
available!

Featured PD Resource

**NSTA ONLINE
SHORT COURSES**

Energy, Summer 2011

Explore Learning Opportunities

[Advanced Search](#)

[See all FREE Lesson Plans](#)

[See all FREE Resources](#)



**LIVE SUPPORT
ONLINE**

[Click here](#) →

My Library

[Home](#) [My PD Tools](#) [Subjects](#) [Learning Resources & Opportunities](#) [Discussion Forums](#) [Education Administrator](#)


[Learning Center Home](#) > [My Library](#) [RSS](#) [SHARE](#) [f](#) [t](#) [e](#)


My Library: NSTA Resources


Welcome, Flavio [Admin](#) | [Log Out](#)


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 NSTA Resources](#) [My Uploaded Resources](#) [My Resource Collections](#)


 **Do-it-Yourself Learning**


 **Books & Articles**


 **SciGuides**
(37 items)


 **SciPacks**
(20 items)


 **Science Objects**
(57 items)


 **Podcasts**
(38 items)


 **Web Seminar Archives**
(22 items)


 **Symposia Archives**
(2 items)


 **Book Chapters**
(26 items)

 **Journal Articles**
(46 items)

 **Live Online Seminars & Classes**

 **In Person Experiences**

 **Web Seminars**
(1 item)

 **No Items**
[Search for resources to add!](#)

Upload your own resources to *My Library*

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

The screenshot shows the 'My Library: Uploaded Resources' interface. At the top, there's a navigation bar with 'My NSTA Resources', 'My Uploaded Resources' (highlighted with a red box), and 'My Resource Collections'. Below this is a 'Resource Upload' section with a welcome message and an 'Upload a Resource' button. To the right of the button is a progress bar showing 'You are currently using 0.2% of your 2 GB' and 'You have 2.00 GB of available space'. Below the upload section is a list of 'My Uploaded Resources' with four items, each having a list of actions (Email to a Friend, Modify Collections, Create Note, Delete this Resource).

My Library: Uploaded Resources Welcome, Flavio | Admin | Log Out

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 NSTA Resources **My Uploaded Resources** My Resource Collections

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](#)

Upload a Resource You are currently using 0.2% of your 2 GB
You have 2.00 GB of available space

My Uploaded Resources

	NSTA Learning Center This is the URL for the NSTA Learning Center.	Email to a Friend Modify Collections Create Note Delete this Resource
	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
	Sample Agenda for APS implementations.doc Sample agenda created for APS administrators to run implementation workshops.	Email to a Friend Modify Collections Create Note Delete this Resource
	Sample PPT for APS implementations.ppt Sample PPT created for APS administrators to use at their implementations.	Email to a Friend Modify Collections Create Note Delete this Resource

My Library: Resource Collections

Welcome, The Learning  [Log Out](#)

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 NSTA Resources](#)

[My Uploaded Resources](#)

[My Resource Collections](#)

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



Collections Shared With Me

[Start a New Collection](#)

Title	Created
 Climate Change 8 items	9/3/2010
 Climate Change Here and Now: 7 items	9/10/2010
 Earth Day PD Resources for Teachers of Science 9 items	4/12/2010
 FDA/CFSAN: Food Irradiation 7 items	9/10/2010
 NSTA REPORTS Freebies Column: Nov. 2010 3 items	9/20/2010

Title	Shared by	Shared
 Climate Change Here and Now: 7 items	The Learning Center	9/10/2010
 FDA/CFSAN: Food Irradiation 7 items	The Learning Center	9/10/2010
 SCIENCE CLASS Elementary Edition: Oct. 2010, Process Skills 8 items	The Learning Center	9/13/2010
 Summer PD Resources 5 items	Flavio Mendez	5/4/2010



The **NSTA** Learning Center

Discussion Forums



The NSTA Learning Center

Search the Learning Center

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[Learning Resources
& Opportunities](#)

[Discussion
Forums](#)

[Education
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My Learning Center

Welcome, Flavio  [Admin](#) | [Log Out](#)

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[My
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[My PD Plan
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[My PD Record
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[My
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[My
Notepad](#)

[New: Discussion
Forums](#)

[Help
Desk](#)

Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 6190 Activity Points!

You've recently earned:



Ruby Aggregator
[Add Personal Resources](#)

You're close to earning:



Sapphire Commenter
[Post 3 more comment/questions](#)

Activity Progress Bar

Your Activity Matters!

It saves
the
Rain
Forest!



Be sure to update your profile and review your points & badges!

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.

NEW LIVE SUPPORT



Online
Advisors
now
available!

Featured PD Resource

**NSTA ONLINE
SHORT COURSES**

Energy, Summer 2011

:: Explore Learning Opportunities

[Advanced Search](#)

[See all FREE Lesson Plans](#)

[See all FREE Resources](#)



**LIVE SUPPORT
ONLINE**


[Click here](#) →

Discussion Forums (*asynchronous*)

- Five public forums
- Discussions about content, classroom practice, and e-PD resources






Discussion Forums

Below are group forums that you may join. Post to existing topics or start your own! All NSTA resources, personally uploaded resources, and collections may be shared and commented upon within these discussions.

 [Hours of Operation](#)

17 people currently online

Public Forums

Forum		Last Post
 Life Science A public forum.	35 Topics 712 Posts	by Jennifer Rahn Yesterday, 9:09 PM Environmental Science
 Physical Science A public forum.	29 Topics 421 Posts	by Maureen Stover Today, 9:30 AM Hover Craft and Other Fun Things That Move
 Earth and Space Science A public forum.	43 Topics 585 Posts	by Pamela Auburn Yesterday, 7:54 PM Wild Weather
 General Science and Teaching A public forum.	108 Topics 1430 Posts	by Kathy Renfrew Today, 10:13 AM Inquiry is Critical for ALL students regardless of grade level. How Do We Make it Work for Young Students?
 Evaluation and Assessment A public forum discussing formative, summative, and dynamic assessments and evaluations.	4 Topics 49 Posts	by Therese Houghton Fri Apr 22, 2011 9:51 AM Summative Assessments

Who is Online

Bambi Bailey, Ron Belczewski, Larry Cohbra, carol evans, Barry Hall, Jeff Layman, Elizabeth McCarty, Frank Meadows, Flavio Mendez, Carolyn Mohr, Judy Okazaki, Jane Reaves, Lynn Rupe, Adah Stock, Debbie Tomin, melissa Urenda, Lynn Yamada

Discussion Forums

[Home](#) > [Life Science](#) > I found resources on food safety
16 people currently online



[Hours of Operation](#)



POST REPLY

WATCH THIS TOPIC

by **Ronaldo Relador**, Thu Jan 20, 2011 11:20 PM

I believe that primarily, science should be protecting our health and not the pocket of few. I find this website really both eye-opening and inspiring to pursue the true mission of science.

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



Ronaldo Relador

10 Posts

Learning Center Activity Points

[Private Message Ronaldo](#)

EDIT

REPORT

REMOVE

by **Carolyn Mohr**, Fri Jan 21, 2011 12:17 AM

Hi Ronaldo, What a great topic to bring up - Food Safety! Thank you for starting this thread. I checked out the website you shared. It was very interesting and provided information about some important topics we often hear being discussed in the news about the safety of our public food supplies. I did an advanced search in the NSTA Learning Center and found a wealth of resources at our fingertips. There are several collections already created within the Learning Center and each contains gobs of great resources to explore. The titles of some of the collections are:

Science of Food Safety: Elementary Collection

Science of Food Safety: High Collection

Science of Food Safety: Middle Collection

Nutrition: Elementary Collection

Nutrition: High Collection



Carolyn Mohr

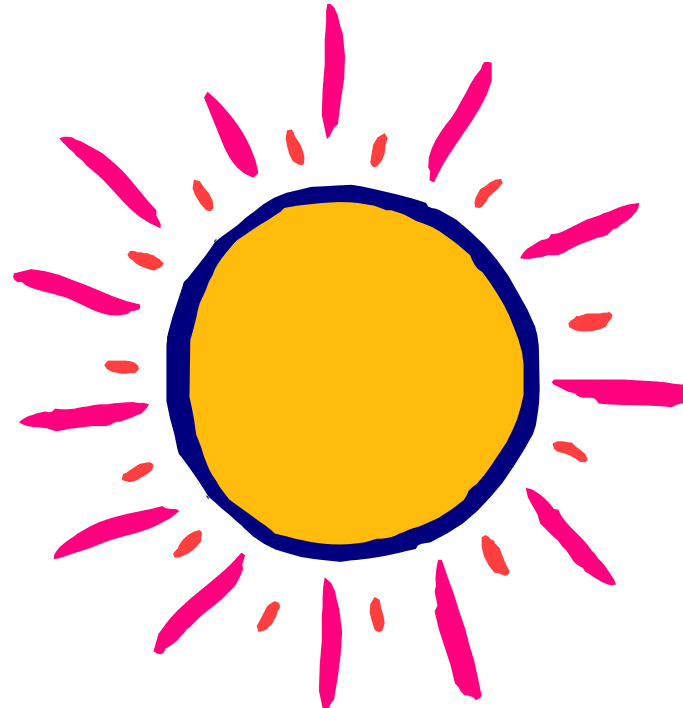
485 Posts

Learning Center Activity Points

[Private Message Carolyn](#)

An opportunity:

- Improve
- Advance
- Network
- Earn



<http://learningcenter.nsta.org>

Personalized Professional Learning

- A **community** to share ideas, ask questions, and earn points
- Practical **tools** to help teachers organize, personalize, & document growth
- Over 6,200 **resources**



The screenshot shows the homepage of The NSTA Learning Center. At the top, there's a navigation bar with links: Back to NSTA.org, Contact Us, Help, and Feedback. Below this is the main header with the NSTA Learning Center logo and a search bar. A secondary navigation bar includes links for Home, My PD Tools, Subjects, Learning Resources & Opportunities, Discussion Forums, and Education Administrator.

The main content area features a "Welcome to Your Professional Development" section. It describes the Learning Center as NSTA's e-professional development (PD) portal, offering access to over 5,400 resources, with over 1,600 being free. It mentions tools like My Library, My PD Record, and My PD Plan and Portfolio. A "Create your free account" link is provided. To the right of this text is a small image of a smiling woman.

Below the welcome message, there are two "NEW" announcements:

- Earn as you learn!**: Collect points and badges as you aggregate, comment, and complete PD. Create collections with your own resources and share with others!
- Live Support!**: Chat with Online Advisors while navigating your professional development. Simply log in or register to get started.

On the right side of the page, there is a "Login" section with fields for E-mail and Password, and a "LOGIN" button. Below the login fields are links for "I'm an NSTA member but I don't have a password", "Register Now for Free", and "Lost password?". There are also links for "RSS" and "SHARE" (Facebook, Twitter, LinkedIn, YouTube).

The bottom section is titled "Explore Learning Opportunities" and includes links for "See all FREE Lesson Plans" and "See all FREE Resources". It features three columns:

- By Subject**: Earth & Space Science, Life Science, Physical Science.
- By Grade Level**: Elementary, Middle School, High School, College.
- By State Standards**: A dropdown menu labeled "Select your state to begin:" with the option "Choose a state".

At the bottom right, there is a section for "NSTA Featured Resources" titled "SciPacks" with the tagline "You Deserve the Credit!". Below this is a "Most Popular Resources" section with a list of resources:

1. Cell Structure and Function: Cells – The Basis of Life
2. Plate Tectonics: Layered Earth
3. Universe: The Sun as a Star
4. Energy: Thermal Energy, Heat, and Temperature

Recognize our Collaborators



Don't forget the web seminar evaluation and to choose your **FREE SciPack**

	Earth & Space <i>8 Topics</i>	Physical <i>7 Topics</i>	Life <i>6 Topics</i>
Completed	<ul style="list-style-type: none"> ▪ Earth, Sun & Moon ▪ Gravity & Orbits ▪ The Solar System ▪ The Universe ▪ Weather & Climate ▪ Rock Cycle ▪ Plate Tectonics ▪ Earth's Changing Surface 	<ul style="list-style-type: none"> ▪ Force & Motion ▪ Energy ▪ Nature of Light ▪ Chemical Reactions ▪ Electric and Magnetic Forces ▪ Atomic Structure ▪ Explaining Matter with Elements, Atoms, and Molecules 	<ul style="list-style-type: none"> ▪ Cell Structure & Function ▪ Coral Reef Ecosystems ▪ Science of Food Safety ▪ Resources & Human Impact ▪ Nutrition ▪ Cell Division and Differentiation

The NSTA Learning Center

Flavio Mendez
Senior Director
NSTA Learning Center

PH: 703-312-9250

Email:

fmendez@nsta.org

Questions?

The screenshot shows the NSTA Learning Center website. At the top, there's a navigation bar with links: Back to NSTA.org, Contact Us, Help, and Feedback. Below this is the main header with the NSTA Learning Center logo and a search bar. A navigation menu includes Home, My PD Tools, Subjects, Learning Resources & Opportunities, Discussion Forums, and Education Administrator.

The main content area features a "Welcome to Your Professional Development" section. It describes the Learning Center as NSTA's e-professional development (PD) portal, offering access to over 5,400 resources, with over 1,600 being free. It mentions practical tools like My Library, My PD Record, and My PD Plan and Portfolio. A "NEW: Earn as you learn!" section encourages users to collect points and badges by aggregating, commenting, and completing PD. Another "NEW: Live Support!" section promotes chat with online advisors.

On the right side, there's a login section with fields for E-mail and Password, a LOGIN button, and links for "I'm an NSTA member but I don't have a password", "Register Now for Free", and "Lost password?". Below this are RSS and SHARE buttons.

The "NSTA Featured Resources" section highlights "NSTA SciPacks" with the tagline "You Deserve the Credit!". The "Most Popular Resources" section lists: 1. Cell Structure and Function: Cells - The Basis of Life, 2. Plate Tectonics: Layered Earth, 3. Universe: The Sun as a Star, and 4. Energy: Thermal Energy, Heat, and Temperature.

At the bottom, there's an "Explore Learning Opportunities" section with filters for "By Subject" (Earth & Space Science, Life Science, Physical Science), "By Grade Level" (Elementary, Middle School, High School, College), and "By State Standards" (a dropdown menu to "Choose a state").

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



GE Foundation

[Back to NSTA.org](#)
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The NSTA Learning Center

Search the Learning Center

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[Subjects](#)
[Learning Resources & Opportunities](#)
[Discussion Forums](#)
[Education Administrator](#)

My Learning Center Welcome, Paul [Admin](#) | [Log Out](#)

[Welcome](#)
[My Profile](#)
[My Library](#)
[My PD Indexer](#)
[My PD Plan and Portfolio](#)
[My PD Record and Certificates](#)
[My Calendar](#)
[My Notepad](#)
[New: Discussion Forums](#)
[Help Desk](#)

Welcome to Your Personalized Learning Web Space!

Paul, you've already earned **225 Activity Points!**

You've recently earned:


NSTA Resource Optimizer
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