



The NSTA Learning Center: Free PD Resources and Tools for Educators

Presented by: Flavio Mendez

December 16, 2010

6:30 p.m. - 8:00 p.m. Eastern time



The **NSTA** Learning Center

Free PD Resources and Tools for Educators

December 16, 2010

<http://learningcenter.nsta.org>

Flavio Mendez
Senior Director



Agenda

- Learning Center (LC) Overview
- LC Community
- LC Resources & Tools



Learning Center

Overview

The NSTA Learning Center

- A **community** of teachers to share ideas, questions, experiences
- Over **5,800** resources
- Practical tools to teachers **organize, personalize & document** their growth over time

The screenshot displays the homepage of The NSTA Learning Center. At the top, there is a navigation bar with links for 'Back to NSTA.org', 'Contact Us', 'Help', and 'Feedback'. Below this is a header section featuring the site's logo and a search bar. A main navigation menu includes links for 'Home', 'My PD Tools', 'Subjects', 'Learning Resources & Opportunities', 'Discussion Forums', and 'Education Administrator'. The central content area is titled 'Welcome to Your Professional Development' and provides an overview of the site's resources, including a link to 'Create your free account'. To the right of this text is a small image of a smiling woman. Below the welcome message, there are two news items: one about earning points and badges ('NEW: Earn as you learn!') and another about live support chat ('NEW: Live Support!'). 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 section are links for 'RSS' and 'SHARE', and a section for 'NSTA Featured Resources' which includes 'NSTA SciPacks' and the tagline 'You Deserve the Credit!'. At the bottom, there is a section for 'Explore Learning Opportunities' with links to 'See all FREE Lesson Plans' and 'See all FREE Resources'. This section includes a table with three columns: 'By Subject', 'By Grade Level', and 'By State Standards'. The 'By Subject' column lists 'Earth & Space Science', 'Life Science', and 'Physical Science'. The 'By Grade Level' column lists 'Elementary', 'Middle School', 'High School', and 'College'. The 'By State Standards' column has a dropdown menu labeled 'Choose a state'. To the right of the table, there is a list of 'Most Popular Resources' with four items: '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'.

Back to NSTA.org | Contact Us | Help | Feedback

The NSTA Learning Center

Search the Learning Center

Home | My PD Tools | Subjects | Learning Resources & Opportunities | Discussion Forums | Education Administrator

Welcome to Your Professional Development

The Learning Center is NSTA's e-professional development (PD) portal to help you address your classroom needs and busy schedule. You can gain access to more than 5,400 different resources, of which [over 1,600 are free](#). A suite of practical tools such as *My Library*, *My PD Record*, and *My PD Plan and Portfolio* help you organize and document your PD growth. [Create your free account](#) and watch the [overview](#).

NEW: 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!

NEW: Live Support! Chat with Online Advisors while navigating your professional development. Simply log in or register to get started.

Explore Learning Opportunities

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

By Subject	By Grade Level	By State Standards
<ul style="list-style-type: none">Earth & Space ScienceLife SciencePhysical Science	<ul style="list-style-type: none">ElementaryMiddle SchoolHigh SchoolCollege	Select your state to begin: <input type="text" value="Choose a state"/>

Most Popular 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



The NSTA Learning Center

December 2010:

Over 70,300
active users with
over 521,500
resources across
their libraries

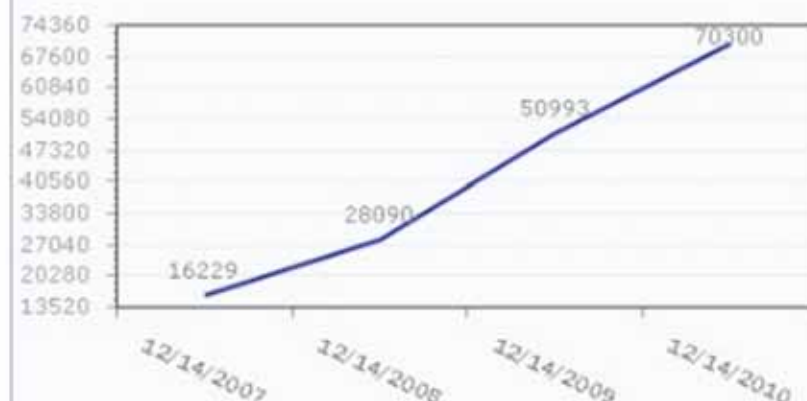
70,300 Active Users*

16,140 Members (23%)

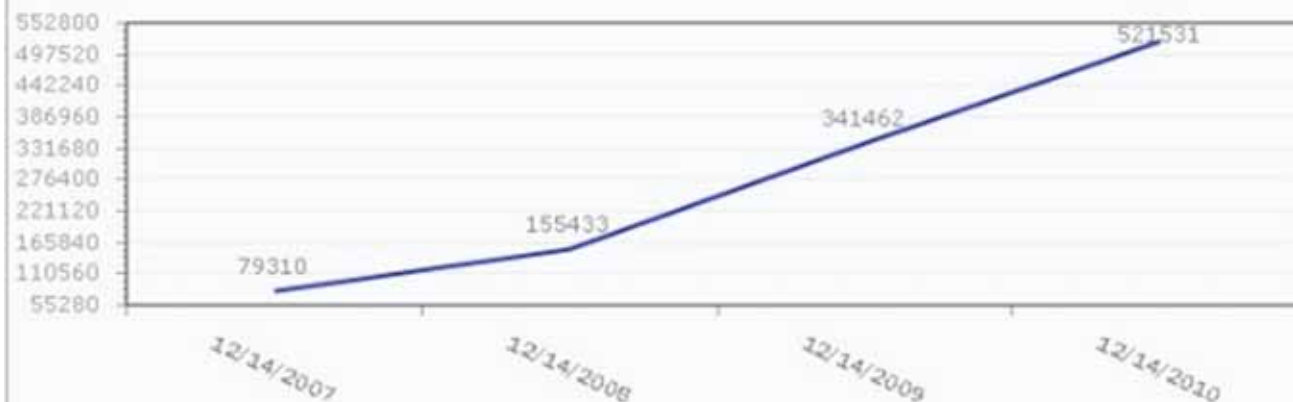


54,160 Non-Members (77%)

Active User Growth



521,531 Resources in Libraries





The Learning Center has over 5,800 resources



Do-It-Yourself Learning

SciGuides [35]
Science Objects [74]
SciPacks [19]
Archived Seminars/Podcast [470+]



Live Online Seminars & Classes

Web Seminars [100/yr]
Short Courses [20+/year]



Books & Articles

Journal Articles [3700+]
NSTA Press Books [250+]
e-Books [130+]
e-Chapters [780+]



In Person Experiences

Symposia [6-10/year]
PD Institutes [6-10/year]

The NSTA Learning Center

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The NSTA Learning Center

Search the Learning Center

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[My PD Tools](#)

[Subjects](#)

[Learning Resources
& Opportunities](#)

[Discussion
Forums](#)

[Education
Administrator](#)

My Learning Center

Welcome, Flavio [Log Out](#)

Welcome

[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 Professional Development Web Space!

NEW: 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!

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



NEW LIVE SUPPORT



Online
Advisors
now
available!

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](#)

[Advanced Search](#)

[See all FREE Lesson Plans](#)

[See all FREE Resources](#)



LIVE SUPPORT
ONLINE

[Click here](#)



Why do you use the Learning Center?



To do science education research	To improve content knowledge	For lesson plan ideas
To earn certificates for PD activities	To prepare for a new teaching assignment	To connect with other teachers
I am a member of a school/district cohort	To improve pedagogical knowledge	Other

Learning Center **Community**

User Profile

- Share with others about you, interests, goals, expertise
- Display your badges, points awarded for community building activities:
 - ✓ Aggregate
 - ✓ Disseminate
 - ✓ Advocate
 - ✓ Comment

Learning Center Profile



Patricia Rourke

[1130 Activity Points](#)

Affiliation: Science Technology Consultant

Location: Arlington, VA and Cape May Point, NJ

Badges:



Aggregator: Add personal resources to your library



Disseminator: Share your resource collections



Advocator: Review and rate resources



Commenter: Post in the Discussion Forums

[View all 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.



Contact

IM: Patty Rourke

Statistics

Joined: Tue Nov 29, 2005 11:01 AM

Last Visited: Yesterday, 9:04 PM

Total Posts: 152

Recent Posts

Tue Nov 30, 2010 7:33 PM in [Force and Motion with Kindergarten](#)

Hi Kathy,

Now that you've snagged our attention, please upload and share your lesson plan and for sure, tell us all about how it was received in Alabama. We look forward to it. :)

Cheers,

Patty R

[View Full Post](#)

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The NSTA Learning Center

Search the Learning Center

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My PD Record & Certificates

My Calendar

My Notepad

Discussion Forums

My Help Tickets

Give Us Feedback

Welcome

Welcome

NEW: Earn
comment,
share with

Be sure

PD Plan
Portfolio

My PD Record
and Certificates

My
Calendar

My
Notepad

New: Discussion
Forums

Help
Desk

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

Personal Development Web Space!

and badges as you aggregate,
collections with your own resources and

and review your points and badges!



Featured PD Resource

**NSTA ONLINE
SHORT COURSES**

Earth, Sun, and Moon

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Explore Learning Opportunities

Advanced Search

See all FREE Lesson Plans

See all FREE Resources



**LIVE SUPPORT
ONLINE**

Click here

Hours of Operation

⌘ Learning Center Profile



Flavio Mendez

NSTA Staff

230 Activity Points

About: I am the NSTA Learning Center Senior Director. I enjoy working with educators and hope that you find the NSTA Learning Center useful and supportive to your PD goals.

Affiliation: National Science Teachers Association

Location: Arlington, VA

Badges:

[Edit My Profile](#)

Aggregator: Add personal resources to your library



Disseminator: Share your resource collections



Advocator: Review and rate resources

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[View all activities](#)

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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

S
U
B
M
I
T





Complete your community profile



Who is Online

- Find other Learning Center users
- Read their profiles, see their badges, points
- Read their most recent discussion forums posts and respond



Explore Learning Opportunities

[Advanced Search](#)
[See all FREE Lesson Plans](#)
[See all FREE Resources](#)

By Subject

- Earth & Space Science
- Life Science
- Physical Science

By Grade Level

- Elementary
- Middle School
- High School
- College

By State Standards

Select your state to begin:

Choose a state:

Do-It-Yourself Learning

Learn at your own pace online with these 1-2 or 6-10 hour interactive activities.

[SEE ALL DIY LEARNING RESOURCES](#)

Live Online Seminars & Classes

Learn online from certified instructors with your colleagues. 1-2 hour seminars, week and month long courses are available. Earn state and university credit.

[SEE ALL ONLINE EVENTS](#)

Books, Articles & Websites

- Books
- Book Chapters
- eBooks
- Journals
- SciLinks

In Person Experiences

Attend an NSTA workshop in person to learn hands-on techniques with other teachers. Earn state and university credit.

[SEE ALL IN PERSON EVENTS](#)

Our Content Collaborators

NSTA Learning Center Underwriters

The Learning Center is NSTA's e-professional development portal to help you address your classroom needs and busy schedule. You can gain access to more than 5,800 different resources that cater to your preference for learning. Over 1,700 resources, such as journal articles, science objects, podcasts and web seminars are available [for free](#). Other resources include SciPacks, SciGuides, and Short Courses. A suite of practical tools including *My Library*, *My PD Record*, *My Professional Development Plan and Portfolio*, *My Calendar*, *My Notepad*, and *My PD Indexer* are available to help you organize, personalize, and document your growth over time. If desired, you may review an [archived Web Seminar](#) overview of the NSTA Learning Center, or download the ["How to Guide"](#) PDF (2.7 MB).

LIVE SUPPORT ONLINE

Click here

Hours of Operation

NSTA Featured Resources

NSTA SciPacks

You Deserve the Credit!

[RSS](#)
[SHARE](#)
[Facebook](#)
[Twitter](#)

Most Popular Resources

[Emailed](#)
[Viewed](#)

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

[More Popular Resources...](#)

Reminders & Opportunities

16 DEC 2010 **REMINDER**

Web Seminar: The NSTA Learning Center: Free PD Resources and Tools for Educators, December 16, 2010

[View Info](#)

27 OCT 2011 **RESOURCE EXPIRATION**

SciPack: Force and Motion

[View Info](#)

27 OCT 2011 **RESOURCE EXPIRATION**

SciPack: Cell Structure and Function

[View Info](#)

27 OCT 2011 **RESOURCE EXPIRATION**

SciPack: Coral Reef Ecosystems

[View Info](#)

27 OCT 2011 **RESOURCE EXPIRATION**

SciPack: Earth's Changing Surface

[View Info](#)

27 OCT 2011 **RESOURCE EXPIRATION**

SciPack: Earth, Sun, and Moon

[View Info](#)

[More Reminders & Opportunities...](#)

Who is Online

Lisa Bengert, Jacqueline Carl, Victoria Chudy, Susan German, Dileida Gracia, Susanne Holman, Heidi Keller, Flavio Mendez, Katie Pinner, Chuck Schepke, Tere Solter-Lust, Ashli Stock, Nicole Sutor, David White, Polly White, Kristin Winslow, Kendra Young ...

Learning Center

Activity Points

Learning Center Activity Points



Aggregator: Add personal resources to your library



Disseminator: Share your resource collections



Advocator: Review and rate resources



Commenter: Post in the Discussion Forums

[View all activities](#)

- Earn points/badges while completing tasks in the LC
- Badges displayed in User Profile and Discussion Forums
- Auto Donations made on your behalf

Exploring strategies that help build online communities of practice

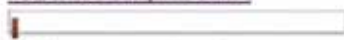
:: Learning Center Profile



Flavio Mendez

NSTA Staff

[230 Activity Points](#)



[Edit My Profile](#)

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Badges Yet to be Earned

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LOGIN ::

Welcome, Dawn

[Log Out](#)



[Hours of Operation](#)

ADVANCED SEARCH

[Advanced Search](#)

Learning Center Activity Points

Below is a list of the different types of activities you can do within the Learning Center to earn points and recognition for your efforts as you review, aggregate, rate, share and discuss your personal and e-PD resources and opportunities from NSTA.

[Activity Points](#) [Auto Donations](#)

Add an NSTA resource to your Learning Center Library

10 Activity Points (AP)

[How to add a resource to your library](#)



NSTA Resource Activator - Add 5 NSTA resources to your library



NSTA Resource Optimizer - Add 10 NSTA resources to your library



NSTA Resource Accelerator - Add 20 NSTA resources to your library

Aggregator: Add a personal resource to your LC library

10 Activity Points (AP)

[Upload a personal resource](#)



Onyx Aggregator - Add 5 personal resources to your library



Sapphire Aggregator - Add 30 personal resources to your library



How many Activity Points do you have?

- A. 0
- B. 1 – 50
- C. 51 – 100
- D. 101 – 300
- E. More than 300



Learning Center

Discussion

Forums

Discussion Forums

- Linked to User Profile
- Display recognition badges
- Integrate all NSTA content
- Attach user files (Word, images, URLs, Excel)

NSTA Learning Center Discussion

[Home](#) > [Discussion Group Three - Week One](#) > [Task 1: Learning Center Collection](#)
1 person currently browsing this forum

[POST REPLY](#) [WATCH THIS TOPIC](#)

by [Walter Woolbaugh](#), Fri Aug 27, 2010 2:39 PM

Hi:

In order to begin understanding the Learning Center collection system, we'd like you to begin your collection with at least three items from the Learning Center. First, on the Learning Center page click on the tab that says "My Account." You might explore what each of the tabs under this are all about. Then you might click on "My Library," and begin to explore this idea of collections. As we've been doing, open up each of the tabs so you can become familiar with them (you can do this process with all the tabs in the Learning Center). You might take a look through the various items that we've just explored and see which ones might best suit your needs in terms of adding to your own collection. Once you have at least three items, please share in this thread what you have listed in your collection, and why you included these particular items. Thanks for doing this.

Your final step will be to share this collection with me (walter@montana.com - just hit the "share" button and select "email.") Also please leave the box checked

[REPORT](#)

by [Patricia McGinnis](#), Sat Aug 28, 2010 10:52 AM

Subject: Patty McGinnis' Collection

I will be working with gifted students this year as a gifted resource specialist so I have started my collection with items that I can use with the gifted students. I have selected 3 articles from NSTA journals and 3 archived webinars about science competitions like Exploravision. Normally teachers don't have time in the curriculum to conduct competitions. It is my hope that I can build a program that would include all sorts of challenging activities for students, including science competitions.

[REPORT](#)

by [Patricia Rourke](#), Mon Aug 30, 2010 11:43 AM

This will be interesting since I just went in and copied my current Library Profile and attached it below. I will take the time to explore NSTA Resources with new eyes looking for items that may be useful to us as on-line advisors. As I scanned the posts prior to this one, and I am sure those that will follow, I know that there will be additional areas selected by you that I will want to explore also. My current profile reflects my recent collaboration with NSTA.

Attachments

[PAR Library Profile Aug 30.pdf](#) (0.07 MB)

[REPORT](#)

LIVE SUPPORT ONLINE
Click here

Walter Woolbaugh
Posts: 202

Patricia McGinnis
Learning Center Activity Points: Posts: 28

Patricia Rourke
Learning Center Activity Points: Posts: 55

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My Library

My PD Indexer

My PD Plan & Portfolio

My PD Record & Certificates

My Calendar

NEW: Early Notepad

comment,
share with

Discussion Forums

My Help Tickets

Give Us Feedback

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

Welcome

PD Plan
Portfolio

My PD Record
and Certificates

My
Calendar

My
Notepad

New: Discussion
Forums

Help
Desk

Welcome

Personal Development Web Space!

and badges as you aggregate,
collections with your own resources and

review your points and badges!

Featured PD Resource

**NSTA ONLINE
SHORT COURSES**

Earth, Sun, and Moon

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

[Advanced Search](#)

[See all FREE Lesson Plans](#)

[See all FREE Resources](#)

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ONLINE**

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Hours of Operation

Discussion Forums (*asynchronous*)





- Four public forums
- Discussions about content, classroom practice, e-PD resources, etc.

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](#)

13 people currently online

Forum		Last Post
 Life Science A public forum.	9 Topics 181 Posts	by Alyce Dalzell Today, 9:30 PM Data Analysis
 Physical Science A public forum.	13 Topics 126 Posts	by Patricia Rourke Today, 8:37 PM Energy - Content, Resources, Lessons
 Earth and Space Science A public forum.	13 Topics 125 Posts	by Alyce Dalzell Today, 10:06 PM Free NSTA Webseminars
 General Science and Teaching A public forum.	34 Topics 384 Posts	by Patricia Rourke Today, 8:56 PM Using Technology in the Classroom Yes or No

Who is Online

Neal Becker, Cecelia Booker, Nichole Brown, Kristine Bybee-Finley, Andrea Cornell, Alyce Dalzell, Elizabeth Dalzell, Nancy Desfosse, brandy keleher, Valerie Russell, Rick Rutland, Kris Schneider, Greg Smith



:: Discussion Forums

[Home](#) > Life Science

1 person currently browsing this forum



LIVE SUPPORT
OFFLINE

Leave a message →

[Hours of Operation](#)

* NEW TOPIC

	Topic		Last Post
	Vermicomposting by Jennifer Rahn > Tue Nov 16, 2010 7:36 AM	5 Replies 57 Views	by Jennifer Rahn Fri Nov 26, 2010 11:59 PM
	Environmental Science by Alyce Dalzell > Mon Nov 01, 2010 4:17 PM	31 Replies 214 Views	by Jennifer Rahn Fri Nov 26, 2010 12:23 AM
	Incorporating math into life science lessons by Learning Center Online Advisors > Tue Oct 05, 2010 7:37 AM	34 Replies 290 Views	by Alyce Dalzell Wed Nov 24, 2010 11:17 PM
	New Biology SciPacks, Resources? by Learning Center Online Advisors > Wed Oct 27, 2010 7:17 PM	17 Replies 116 Views	by Jennifer Rahn Tue Nov 23, 2010 8:24 AM
	Organic Molecules by Katherine Zimmerman > Mon Nov 08, 2010 7:23 PM	14 Replies 104 Views	by Carolyn Mohr Thu Nov 18, 2010 3:28 PM

* NEW TOPIC

by **Alyce Dalzell**, Tue Nov 02, 2010 10:52 PM

This short video is amazing! A group of professional astronomers had the **Hubble Space Telescope** pointed at absolutely nothing and left it there, first for 10 days, and then for 11 days. Next, the astronomers made the images into a 3D presentation.

<http://www.flixxy.com/hubble-ultra-deep-field-3d.htm>

In case a student asks... 13 billion light years is about equal to 880,000,000,000,000,000,000,000 (or 880 sextillion) miles. :)

Happy Sky Watching!
Alyce



Alyce Dalzell

102 Posts



Learning Center Activity Points



REPORT

by **Ruth Hutson**, Wed Nov 03, 2010 9:00 AM

Flavio wrote, ".....Another question posted on behalf of a UMBC pre-service teacher: The Jovian planets are gaseous. What gases have scientists found in their atmospheres, and, how do scientists determine which specific gases make up these planets when they are so far away from us.....?"

Hi Flavio,

If your pre-service teacher is simply looking for the facts, then I recommend that he or she check out the following URL <http://nssdc.gsfc.nasa.gov/> which is the home page for National Space Science Data Center. It is NASA's permanent archive for space science mission data. From there, your students can further search the Jovian planets.



Ruth Hutson

55 Posts



Learning Center Activity Points





What topics would you like to talk about in the Discussion Forums?

1.

2.

3.

4.

Others, please type your ideas in the chat window.

Learning Center **Online Advisors**

Learning Center Online Advisors

- Educators who moderate discussion, assist users
- Discussion Forums & Live Support
- 7 days/week; ~60 hours/week

Exploring strategies that help build online communities of practice

Wendy Ruchti

Wendy Ruchti has been part of the Educational Foundations Department at Idaho State University's College of Education since 2008. She received a PhD in Education from the University of Idaho in 2005 with an emphasis in curriculum and instruction in STEM education. At ISU, she has taught several educational foundations courses. Her research interests include elementary science education and creating collaborative online learning environments. Before coming to ISU, she taught middle school science and math.



Lara Smetana

Lara Smetana is an assistant professor of science education at Southern Connecticut State University. She brings classroom experience as an 8th grade physical science teacher and has worked with a variety of informal education programs across the country. Lara teaches courses in elementary science methods and educational technology and mentors student teachers. Her research interests include pre- and in-service teacher education and the use of educational technology in science teaching and learning.



Kathy Sparrow

Dr. Kathy Sparrow is currently an adjunct professor at Florida International University (FIU), teaching Elementary Science Methods. She previously worked as a middle and high school science teacher as well as the Science Supervisor for Akron Public Schools. She was a Regional Director for SECO, served on the NSTA Board of Directors and was president of the National Science Education Leadership Association (NSELA). Kathy was also awarded the Outstanding National Science Supervisor Award in 1999.





Live Support Schedule

Online Advisors work in two-hour shifts. Each shift is staffed by two Advisors. The current schedule of 62 hours per week is described in the table below (All times Eastern).

Mon	Tue - Thu	Fri	Sat	Sun
7 am - 11 am 2 pm - 4 pm 7 pm - 11 pm	7 am - 11 am 2 pm - 4 pm 5 pm - 11 pm	7 am - 11 am 1 pm - 3 pm	2 pm - 6 pm	4 pm - 10 pm

If no Online Advisors are available, users may click on *Live Support* and leave a message. Messages are answered promptly by the Online Advisors during the following shift.

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The NSTA Learning Center

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My Learning Center

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Explore Learning Opportunities

[Advanced Search](#)

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Alyce Dalzell

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Ruth Hutson

55 Posts



Learning Center Activity Points





The NSTA Learning Center

Currently in room: Jay, Flavio Mendez, Senior Director



Jay:

Do you have Life Science resources in the Learning Center?



Call accepted by operator Flavio Mendez, Senior Director. Currently in room: Jay, Flavio Mendez, Senior Director.

Flavio Mendez, Senior Director:

Hello Jay, this is Flavio Mendez. Thank you for visiting the Learning Center.

Flavio Mendez, Senior Director:

Have you tried using the Advanced Search to find what you are looking for?

Jay:

Yes, wondering if you had something I can use to review "cells?"

Flavio Mendez, Senior Director:

Check out this Science Object: http://learningcenter.nsta.org/product_detail.aspx?id=10.2505/7/SCB-CSF.1.1

Jay:

This is very helpful, thanks.

Flavio Mendez, Senior Director:

Anything else that I can help you with today?

Jay:

No thanks!

Jay:

Good bye

Flavio Mendez, Senior Director:

Thank you for visiting the Learning Center.

|

Send



Let's pause for
general questions
about Learning
Center community



Which resources/opportunities have you used before?

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

Learning Center e-PD Resources

Featured e-PD resources



supported by



S.D. Bechtel, Jr.
Foundation



THE WILLIAM AND FLORA
HEWLETT
FOUNDATION



U.S. Department of Transportation
National Highway Traffic Safety
Administration



Agilent
Technologies
Foundation





- 2-hour **free**, self-paced, learning experience
- Interactive **simulations**
- Questions to promote interaction and learning
- Based on **science education standards**
- Seventy-four (**74**) currently available



Science Interactive



NSTA SCIENCE INTERACTIVE: Lunar Phases

INSTRUCTIONS ⓘ

What you see from Earth

Run Simulation

Speed: 1

1st day

Jump To

- New Moon
- Waxing Crescent
- First Quarter
- Waxing Gibbous
- Full Moon
- Waning Gibbous
- Third Quarter
- Waning Crescent

The simulation interface shows a central Earth with a white crescent moon on its right side. A circular track around Earth is numbered 1 through 29. To the right of the track is a small icon of the Moon showing a half-illuminated right side. On the far right is a list of lunar phases with selection icons. A large yellow watermark "Copyright © NSTA" is oriented vertically across the right side of the interface.



Add Science Objects to your “Library”



Go to *Learning Center* Home Page

<http://learningcenter.nsta.org>



The screenshot shows the NSTA Learning Center homepage. At the top, there is a navigation bar with links: Back to NSTA.org, Contact Us, Help, and Feedback. The main header features the NSTA Learning Center logo and a search bar. Below the header is a horizontal menu with options: Home, My PD Tools, Subjects, Learning Resources & Opportunities, Discussion Forums, and Education Administrator. A red arrow points to the 'Learning Resources & Opportunities' menu, which is expanded to show a list of resources: Science Objects, SciPads, SciGuides, Symposia, Symposia Archives, Professional Development Institutes, Web Seminars, Web Seminar Archives, Podcasts, Online Courses, NSTA Journal Articles, and NSTA Press Books. The main content area is divided into several sections. On the left, there is a 'My Learning Center' section with tabs for Welcome, My Library, My PD Indexer, and My PD Plan and Portfolio. Below this is a 'Welcome to Your Professional Development' section with a 'NEW: Earn as you learn!' announcement and a 'Be sure to update your profile and review' prompt. In the center, there is a 'space!' section with icons for various tools. On the right, there is a 'Welcome, Flavio' section with links for Admin and Log Out, and a 'Featured PD Resource' section for NSTA ONLINE SHORT COURSES: Force and Motion. At the bottom, there is a 'Explore Learning Opportunities' section with links to 'See all FREE Lesson Plans' and 'See all FREE Resources', and a 'LIVE SUPPORT OFFLINE' section with a 'Leave a message' button and the NSTA logo.

Back to NSTA.org Contact Us Help Feedback

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 Library My PD Indexer My PD Plan and Portfolio

Welcome to Your Professional Development

NEW: Earn as you learn! Collect points and badges, comment, and complete PD! Create collections and share with others!

Be sure to **update your profile and review** your activities.

With these resources you can build your professional development. You can start at "Explore Learning Opportunities". You may also review an [archived Web Seminar](#).

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

space!

Welcome, Flavio Admin Log Out

My Notepad New: Discussion Forums Help Desk

Featured PD Resource

NSTA ONLINE SHORT COURSES
Force and Motion

Track your activities and assess your progress. Create a game plan with the PD Plan and Portfolio tool. Explore the Learning Center.

Explore Learning Opportunities

- See all FREE Lesson Plans
- See all FREE Resources

LIVE SUPPORT OFFLINE
Leave a message

NSTA

See All
Science
Objects

or

Display
Science
Objects by
Subject Area



Back to NSTA.org | Contact Us | Help | Feedback

The NSTA Learning Center

Search the Learning Center

Home | My PD Tools | Subjects | Learning Resources & Opportunities | Discussion Forums | Education Administrator

Learning Center Home > Resources > Science Objects

RSS | SHARE | Facebook | Twitter | YouTube

LOGIN ::

Welcome, Flavio

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

LIVE SUPPORT OFFLINE

Leave a message

[Hours of Operation](#)

ADVANCED SEARCH

[Advanced Search](#)

FREE

Science Objects

BUILDING CONTENT KNOWLEDGE

BROWSE SCIENCE OBJECTS

- All Science Objects
- Earth and Space Science
- Physical Science
- Life Science

Science Objects

Ready When You Are — for Free!

You're teaching a subject for the first time, or for the first time in a long time. You need a content refresher now. Where can you find help that's engaging, high-quality, easy to access—and affordable, too?

From NSTA's latest ready resource, Science Objects! Science Objects are two hour on-line interactive inquiry-based content modules that help you better understand the science content you teach.

With support from sponsors, Science Objects provide all teachers of science open access to these valuable new resources—at no cost!

The [system check](#) will detect your current browser settings and plug-ins you have on your computer as are required to access the rich media content in the Science Objects, such as the Flash and QuickTime media players.

[Learn More](#)

FEATURED SCIENCE OBJECTS

Click on any of the titles below, to launch the Science Object:

Topic: Coral Reef Ecosystems	Topic: Ocean's Effect on Weather and Climate
<ul style="list-style-type: none">THE LIVING REEFTHE ABIOTIC SETTINGINTERDEPENDENCE	<ul style="list-style-type: none">GLOBAL CLIMATE PATTERNSGLOBAL PRECIPITATION AND ENERGY



Add a Science Object to Library

Back to NSTA.org | Contact Us | Help | Feedback

The NSTA Learning Center

Search the Learning Center

Home | My PD Tools | Subjects | Learning Resources & Opportunities | Discussion Forums | Education Administrator

Learning Center Home > Advanced Search

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

LIVE SUPPORT
OFFLINE
[Leave a message](#)
[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

Subject: [All Subjects](#)
Opportunities: [All Opportunities](#) | [Do-it-Yourself Learning](#) | [Science Objects](#)

Individual Resources | Collections Created by Users | Collections Created by NSTA

Sort by: Relevancy
Results: 1 - 10 of 74
1 2 3 4 5 6 7 8 Next


Coral Reef Ecosystems: Ecosystems in Crisis ★★★★★
Science Object
[In My Library](#) [Add to PD Plan](#)
Average User Rating: ★★★★★
Science Objects are two hour on-line interactive inquiry-based content modules that help teachers better understand the science content they teach. This Science Object is the fourth of four Science Objects in the Coral Reef Ecosystems SciPack. It explores the natural and human causes of ecosystem stress. Human beings live near coral ecosystems and use them in a variety of ways. Increasing amounts of stress is brought on these ecosystems as humans... [View full description!](#)
Member Price: **Free** Nonmember Price: **Free**
Grade Level: Elementary School, Middle School


Ocean's Effect on Weather and Climate: Global Climate Patterns ★★★★★
Science Object
[Add to Library](#) [Add to PD Plan](#)
Average User Rating: ★★★★★
Science Objects are two hour on-line interactive inquiry-based content modules that

Featured e-PD resources



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National Highway Traffic Safety
Administration

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Technologies
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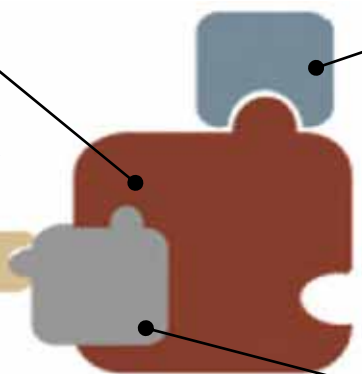
NSTA



3-5 Science Objects



Unlimited Content
Mentor Email
Support



SciPack



Assessment and
Certification
Opportunity



Pedagogical
Implications
Component



Building Content Knowledge

Personal Information



Welcome,
susan_y@nsta.org

Last Visit:

■ Date: Not Available

■ Time: Not Available

Science Object Status:

■ Available: 105

■ Visited: 1

Links

■ [Help Desk](#)

■ [NSTA Learning Center](#)

Welcome

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

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

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

Table of Contents

Select:

SciPack	Completion	Last Accessed
Orientation	<div></div>	Not Accessed
Force and Motion	<div></div>	07/10/07 8:44 AM
Position and Motion	<div></div>	07/10/07 8:44 AM
Newton's First Law	<div></div>	Not Accessed
Newton's Second Law	<div></div>	Not Accessed
Newton's Third Law	<div></div>	Not Accessed
Force and Motion Final Assessment	<div></div>	Not Accessed
Glossary	<div></div>	Not Accessed
Pedagogical Implications	<div></div>	Not Accessed

What's new?





Cell Division and Differentiation

Science Objects:

- Continuity of Life
- Variation and Specialization of Cells
- Multicellular Organization




Cell Division and Differentiation

Science Objects:

- Continuity of Life
- Variation and Specialization of Cells
- Multicellular Organization

We will add it to your Library when ready!

Cell Division and Differentiation

**Science
OBJECTS**

Cell Division and Differentiation
Variation and Specialization of Cells

3 OF 7

Home

Reset Page

Previous

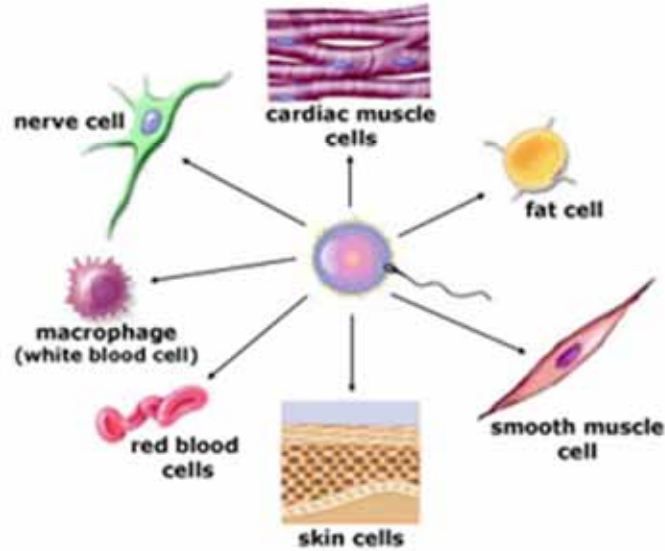
Next

Variation and Specialization of Cells

- Introduction
- The Nature of Variation
- The Basis of Specialization
 - What is Responsible for Specialization?
 - Information Flow in Developing Cells
 - Transcription and Translation
 - Cell Differentiation
 - Outcomes of Differentiation
- Control of Specialization
- Rationale for Specialization
- Summary
- Evaluate

Cell Differentiation

Earlier in this Science Object, we discovered that stem cells are undifferentiated cells that can undergo cell division and multiplication. Since these cells are not specialized they do not perform any special function in the organism the way that an eye cell, a skin cell, or a blood cell would.



The diagram illustrates the process of cell differentiation. A central, undifferentiated stem cell is shown with arrows pointing outwards to various specialized cell types. These include a nerve cell (green, elongated with a nucleus), cardiac muscle cells (striated, pinkish-red), a fat cell (yellow, rounded), a smooth muscle cell (spindle-shaped, pink), skin cells (a layer of cells), red blood cells (biconcave discs, red), and a macrophage (white blood cell) (purple, irregular shape).

Figure 3.13. Stem cells differentiate to form specialized cells.

RESTART

MITOSIS MATCH-UP

1	2	3	4	5	6	7
						
						

Cell Cycle Stages

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.

Reset

Submit

Featured e-PD resources



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FOUNDATION



U.S. Department of Transportation
National Highway Traffic Safety
Administration



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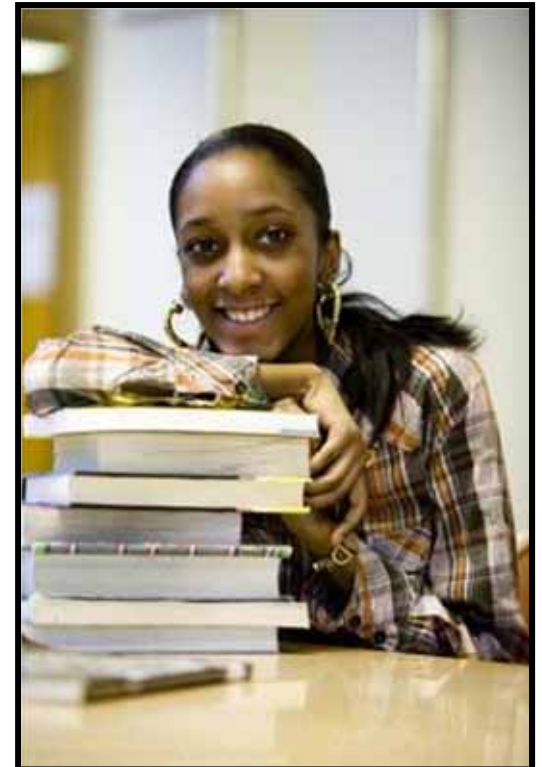
Valuable classroom resources for science teachers interested in integrating the web into their teaching

- Each SciGuide consists of:
 - Customized lesson plans using selected web resources
 - Approximately 100 standards-aligned web-accessible resources
 - Teacher media vignettes describing and showcasing the lessons
 - Samples of student work
 - Science Interactives utilized in SciPack on same topic





- Journal Articles
- e-Book Chapters
- Web Seminar Archives and Podcasts
- Online Courses





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



Add other free resources to your “Library”



[Back to NSTA.org](#) [Contact Us](#) [Help](#) [Feedback](#)

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 [Log Out](#)

[Welcome](#)

[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 Professional Development Web Space!

NEW: [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!

Be sure to [update your profile and review your points and badges!](#)



NEW LIVE SUPPORT



Online
Advisors
now
available!

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

[Advanced Search](#)

[See all FREE Lesson Plans](#)

[See all FREE Resources](#)



LIVE SUPPORT
ONLINE

[Click here](#)



Advanced Search

Back to NSTA.org Contact Us Help Feedback

The NSTA Learning Center

Search the Learning Center

Home My PD Tools Subjects Learning Resources & Opportunities Discussion Forums Education Administrator

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

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

 **LIVE SUPPORT OFFLINE**
[Leave a message](#)
[Hours of Operation](#)

ADVANCED SEARCH
[Advanced Search](#)

ADVANCED SEARCH

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:

Advanced Search results (for nutrition)

The screenshot displays the NSTA Learning Center interface. At the top, the header includes navigation links (Back to NSTA.org, Contact Us, Help, Feedback) and the site logo. A search bar is positioned on the right. Below the header, a navigation menu contains links for Home, My PD Tools, Subjects, Learning Resources & Opportunities, Discussion Forums, and Registration Administrator. The main content area is titled 'Advanced Search' and shows filters for Subject (All Subjects) and Opportunities (All Opportunities). A summary of search results is provided, including counts for Do-it-Yourself Learning, Books & Articles, Live Online Seminars & Classes, and In Person Experiences. The results are sorted by Relevancy. A specific result, 'Nutrition: What are Nutrients?', is highlighted, showing its title, Science Object status, and a brief description. Red arrows point to the 'All Subjects' and 'All Opportunities' filters, the 'LIVE SUPPORT OFFLINE' banner, the 'Advanced Search' link in the left sidebar, the 'Nutrition: What are Nutrients?' result card, and the 'Add to Library' and 'Add to PD Plan' buttons.

Back to NSTA.org | Contact Us | Help | Feedback

The NSTA Learning Center

Search the Learning Center

Home | My PD Tools | Subjects | Learning Resources & Opportunities | Discussion Forums | Registration Administrator

Learning Center Home > Advanced Search

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

LIVE SUPPORT OFFLINE
Leave a message
[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

Subject: [All Subjects](#)
Opportunities: [All Opportunities](#)

Individual Resources | Collections Created by Users | Collections Created by NSTA

66 results in Do-it-Yourself Learning
46 results in Books & Articles
2 results in Live Online Seminars & Classes
2 results in In Person Experiences

Results: 1 - 10 of 117
Sort by: Relevancy

Nutrition: What are Nutrients?
Science Object

[Add to Library](#) [Add to PD Plan](#)

Science Object

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 [Nutrition SciPack](#). It explores nutrients and the specific physiological functions associated with each nutrient. Carbohydrates, fats, and proteins provide energy for body movement and physiological processes; proteins provide building material... [view full summary](#)

Member Price: **Free** Nonmember Price: **Free**
Grade Level: Elementary School, Middle School, High School



How many Activity Points do you have?

- A. 0
- B. 1 – 50
- C. 51 – 100
- D. 101 – 300
- E. More than 300



Learning Center

Tools:

My Library

My Library

- Store and annotate NSTA resources
- Upload your own resources
- Create personalized collections
- Share your collections with individuals, group, or make public

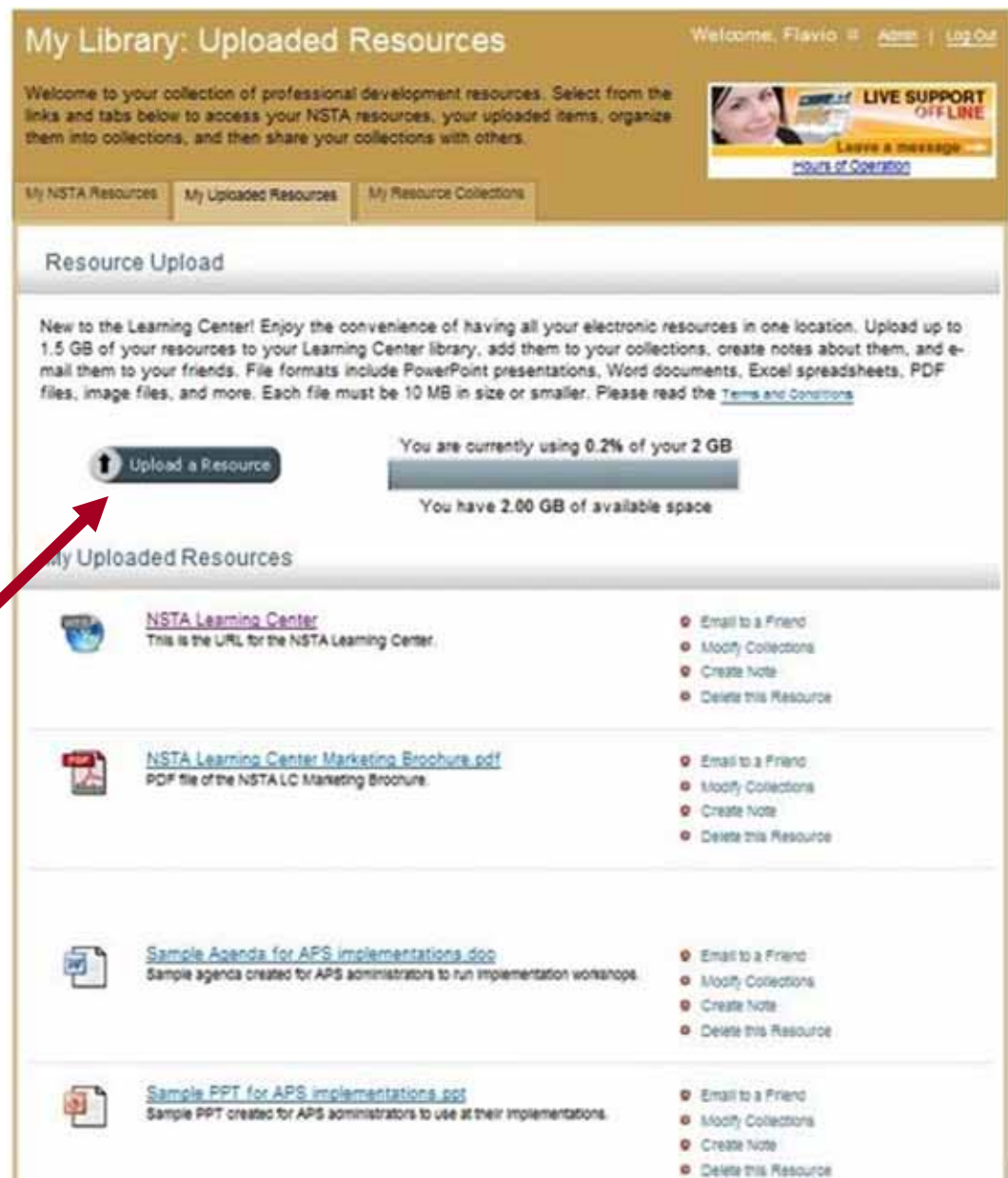


<http://learningcenter.nsta.org>



Upload your own resources to *My Library*

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




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](#).

 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.	<ul style="list-style-type: none">Email to a FriendModify CollectionsCreate NoteDelete this Resource
	NSTA Learning Center Marketing Brochure.pdf PDF file of the NSTA LC Marketing Brochure.	<ul style="list-style-type: none">Email to a FriendModify CollectionsCreate NoteDelete this Resource
	Sample Agenda for APS implementations.doc Sample agenda created for APS administrators to run implementation workshops.	<ul style="list-style-type: none">Email to a FriendModify CollectionsCreate NoteDelete this Resource
	Sample PPT for APS implementations.ppt Sample PPT created for APS administrators to use at their implementations.	<ul style="list-style-type: none">Email to a FriendModify CollectionsCreate NoteDelete this Resource

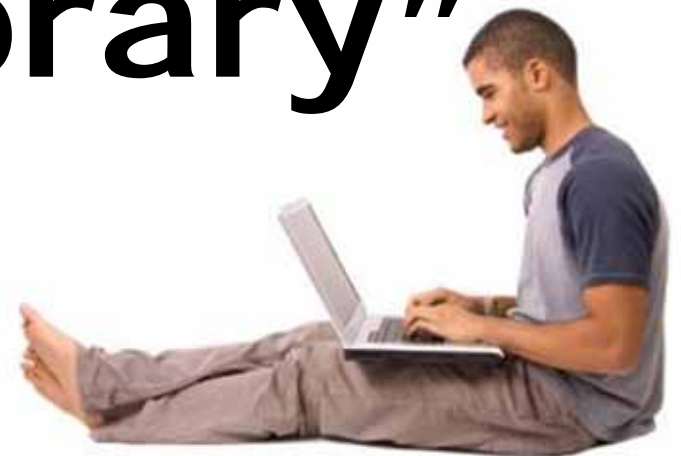
Have you added a personal resource to your LC library?



YES	NO



Try it!
Add a personal
resource, or a URL
to your “Library”





After this web seminar: Create and Share a Collection



Create a Collection

- NSTA & personal resources
- Share collections with one person or many
- Make your collection public

The screenshot shows the 'My Library: NSTA Resources' page. At the top, there's a navigation bar with links: 'Back to NSTA.org', 'Contact Us', 'Help', and 'Feedback'. Below this is the 'The NSTA Learning Center' header with a search bar and a photo of three people. A secondary navigation bar includes 'Home', 'My Account', 'Subjects', 'Learning Resources & Opportunities', 'Professional Development Tools', and 'Education Administrator'. The main content area is titled 'My Library: NSTA Resources' and includes a welcome message for 'Flavio'. It features three tabs: 'My NSTA Resources', 'My Uploaded Resources', and 'My Resource Collections', with the third tab highlighted by a red arrow. Below the tabs, there are two columns of resource categories. The left column, under 'Do-it-Yourself Learning', lists 'SciGuides (32 items)', 'SciPacks (15 items)', 'Science Objects (4 items)', 'Podcasts (1 item)', and 'Web Seminar Archives (1 item)'. The right column, under 'Books & Articles', lists 'Journal Articles (13 items)'. At the bottom, there are sections for 'Live Online Seminars & Classes' and 'In Person Experiences', both showing 'No items' and a link to 'Search for resources to add!'.

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



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

Title:

Description:

Why did you put these resources together and what is the intended use?

Grades:

☐

Elementary

☐

Middle

☐

High

Make it Public:

☒

Allow other users to find this collection within search results

Submit

Cancel

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

Title

Created



Climate Change
8 items

9/3/2010



Climate Change Here and Now:
7 items

9/10/2010

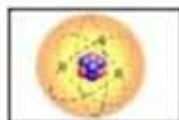
My Library:

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](#)[View all resource types](#)Sort By: [Science Objects](#)

Currently displaying items: 1 - 20 of 32

[1](#) [2](#) [Next](#)

Energy in Atoms

Atomic Structure: Energy in Atoms

Type: Science Object

Days Remaining: Unlimited

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 third of three Science Objects in the Atomic Structure SciPack. It investigates...

- [Email to a Friend](#)
- [Add to Collection](#)
- [Create Note](#)
- [Write Review](#)
- [Remove From Library](#)

Share a Collection

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

My Library:

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

Climate Change

- [Back to All Collections](#)
- [Edit Collection Name/Description](#)
- [Delete Collection](#)

Intended for: Elementary, Middle, High school

- [Share this Collection](#)
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Currently displaying items: 1 - 8 of 8

Sort By: Title



Archive: Climate Change/NSTA Symposium: Earth Then, Earth Now: Our Changing Climate, New Orleans, Louisiana: March 19, 2009

Type: Symposia Archive

Days Remaining: Unlimited

Grade: Middle School, High School, Informal Education

Summary: During this half-day Symposium, scientists and education specialists from SRS, NOAA, and USFS talked about the basic science behind our understanding of climate change, and global impacts on the atmosphere, ecosystems (particularly forests), and oceans...

- [Email to a Friend](#)
- [Modify Collections](#)
- [Create Note](#)
- [Write Review](#)
- [Remove From Collection](#)



My Library:

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](#)



Climate Change

- [Back to All Collections](#)
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Need to share with one person?

Email of recipient:

Additional note:
(optional)

[Share](#)

[Cancel](#)

Need to share with multiple people?

Copy the URL below and paste it into your email client. You are free to share this URL with anyone. When the recipient visits the link, they will be taken to a view of this collection. They will be able to save the collection to their own library if they log in or register.

<http://learningcenter.nsta.org/share.aspx?id=mmwEWOQaE2>



How many Activity Points do you have?

- A. 0
- B. 1 – 50
- C. 51 – 100
- D. 101 – 300
- E. More than 300

The NSTA Learning Center

- A community of teachers to share ideas, questions, experiences
- Over 5,800 resources
- Practical tools to teachers organize, personalize & document their growth over time

The screenshot displays the homepage of The NSTA Learning Center. At the top, there is a navigation bar with links for 'Back to NSTA.org', 'Contact Us', 'Help', and 'Feedback'. Below this is a large header area featuring the site's logo and a search bar. A secondary navigation bar contains links for 'Home', 'My PD Tools', 'Subjects', 'Learning Resources & Opportunities', 'Discussion Forums', and 'Education Administrator'. The main content area is divided into several sections: a 'Welcome to Your Professional Development' section with a video thumbnail, a 'Login' section with email and password fields, a 'NEW: Earn as you learn!' section about collecting points and badges, and a 'NEW: Live Support!' section about chat with online advisors. On the right side, there are sections for 'NSTA Featured Resources' (highlighting SciPacks) and 'Most Popular Resources' (listing topics like Cell Structure and Function, Plate Tectonics, and the Universe). At the bottom, there is a section for 'Explore Learning Opportunities' 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' (with a dropdown menu to 'Choose a state').

Collaborators



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

	Earth & Space <i>8 Topics</i>	Physical <i>6 Topics</i>	Life <i>5 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	<ul style="list-style-type: none">• Cell Structure & Function• Coral Reef Ecosystems• Science of Food Safety• Resources & Human Impact• Nutrition

The NSTA Learning Center

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NSTA Learning Center

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Questions?

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 site logo and a search bar. A secondary navigation bar contains 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 with a description of the portal's resources and a 'Login' section with email and password fields. Below the welcome message, there are two news items: one about earning points and badges, and another about live support chat. A section titled 'Explore Learning Opportunities' includes filters for 'By Subject' (Earth & Space Science, Life Science, Physical Science), 'By Grade Level' (Elementary, Middle School, High School, College), and 'By State Standards' (with a dropdown menu). On the right side, there are sections for 'NSTA Featured Resources' (highlighting SciPacks) and 'Most Popular Resources' (listing topics like Cell Structure and Function, Plate Tectonics, and the Universe).

Back to NSTA.org Contact Us Help Feedback

The NSTA Learning Center

Search the Learning Center

Home My PD Tools Subjects Learning Resources & Opportunities Discussion Forums Education Administrator

Welcome to Your Professional Development

The Learning Center is NSTA's e-professional development (PD) portal to help you address your classroom needs and busy schedule. You can gain access to more than 5,400 different resources, of which over 1,600 are free. A suite of practical tools such as *My Library*, *My PD Record*, and *My PD Plan and Portfolio* help you organize and document your PD growth. [Create your free account](#) and watch the [overview](#).

NEW: 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!

NEW: Live Support! Chat with Online Advisors while navigating your professional development. Simply log in or register to get started.

Login

E-mail:

Password:

LOGIN

☐ I'm an NSTA member but I don't have a password
☐ Register Now for Free
☐ Lost password?

RSS **SHARE**

NSTA Featured Resources

NSTA SciPacks

You Deserve the Credit!

Most Popular Resources

Emailed Viewed

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

Explore Learning Opportunities

[Advanced Search](#) [See all FREE Lesson Plans](#) [See all FREE Resources](#)

By Subject	By Grade Level	By State Standards
<ul style="list-style-type: none">Earth & Space ScienceLife SciencePhysical Science	<ul style="list-style-type: none">ElementaryMiddle SchoolHigh SchoolCollege	Select your state to begin: <input type="text" value="Choose a state"/>

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

The **NSTA** Learning Center

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Search the Learning Center 

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My Learning Center

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

[Welcome](#) | [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 Professional Development Web Space!

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: 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!

NEW LIVE SUPPORT

 Online Advisors now available!



Explore Learning Opportunities

[Advanced Search](#) | [See all FREE Lesson Plans](#) | [See all FREE Resources](#)

By Subject	By Grade Level	By State Standards
<ul style="list-style-type: none"> Earth & Space Science Life Science Physical Science 	<ul style="list-style-type: none"> Elementary Middle School High School 	Select your state to begin: <input type="text" value="Choose a state"/>

LIVE SUPPORT ONLINE

 Click here 

[Hours of Operation](#)

NSTA Featured Resources

Science OBJECTS 

<http://learningcenter.nsta.org>



<http://www.elluminate.com>

National Science Teachers Association

Dr. Francis Q. Eberle, Executive Director

Zipporah Miller, Associate Executive Director
Conferences and Programs

Al Byers, Assistant Executive Director e-Learning

NSTA Web Seminars

Paul Tingler, Director

Jeff Layman, Technical Coordinator

