

Montana Science Teachers Association



NEWS JOURNAL

A publication of the Montana Science Teachers Association

May 2011

Submitting Articles to the MSTA News Journal

When submitting articles, please adhere to the following criteria:

- Electronic submissions are preferred in Microsoft Word format. These can be attached to your email message.
- If in doubt about format, submit your work in .rtf format.
- If truly in doubt, paste your submission in the body of the email message.
- Lab activities may be mailed. Please cite any references and also state which National Science Standards your activity meets.

John Graves, Editor
 1112 Hunters Way
 Bozeman, Montana 59718
graves@montana.edu

Tentative Submission/Publication Dates
 August 15/September
 November 15/December
 February 15/March
 April 15/May

Montana Science Teachers Association Membership Application

Name _____		Date _____																	
Last	First																		
Address _____		Phone _(____)_____																	
City _____	County _____	State _____	Zip _____																
School/Affiliation _____		<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Dues Category</th> </tr> <tr> <td>1 year</td> <td style="text-align: right;">\$20.00 _____</td> </tr> <tr> <td>MSTA/MCTM</td> <td style="text-align: right;">\$30.00 _____</td> </tr> <tr> <td>MSTA/MEEA</td> <td style="text-align: right;">\$30.00 _____</td> </tr> <tr> <td>3 years</td> <td style="text-align: right;">\$50.00 _____</td> </tr> <tr> <td>Life</td> <td style="text-align: right;">\$150.00 _____</td> </tr> <tr> <td>Student</td> <td style="text-align: right;">\$5.00 _____</td> </tr> <tr> <td>Retired</td> <td style="text-align: right;">\$5.00 _____</td> </tr> </table>		Dues Category		1 year	\$20.00 _____	MSTA/MCTM	\$30.00 _____	MSTA/MEEA	\$30.00 _____	3 years	\$50.00 _____	Life	\$150.00 _____	Student	\$5.00 _____	Retired	\$5.00 _____
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3 years	\$50.00 _____																		
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Student	\$5.00 _____																		
Retired	\$5.00 _____																		
School Phone(____)_____																			
Email _____																			
Grade Level	Subject																		
<input type="checkbox"/> K-6	<input type="checkbox"/> All sciences	<input type="checkbox"/> Physics																	
<input type="checkbox"/> 6-9 MS or JH	<input type="checkbox"/> Life Science	<input type="checkbox"/> Chem																	
<input type="checkbox"/> 9-12	<input type="checkbox"/> Phys Science	<input type="checkbox"/> Other																	
<input type="checkbox"/> College/Univ.	<input type="checkbox"/> Earth Science																		
<input type="checkbox"/> Sup/Admin.	<input type="checkbox"/> Biology																		

Make checks payable to MSTA
 Return to LeAnne Yenny
 3880 Equestrian Lane
 Bozeman, MT 59718

In this issue...

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Professional Development for Teachers

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Montana Science Teachers' Association

From the President

Hello, all!

Hello!

It is finally spring here in Montana, with buds beginning to show on trees and daffodils and tulips showing off brilliant colors. Our bird feeder is beginning to gather a much wider variety of our avian friends. Perhaps best of all, isn't it wonderful to go to work and back in sunlight?

This year's MEA-MFT Educators' Conference will be held in Missoula. As always, the conference promises to be a great place to learn new content, gather wonderful materials, and show us new ideas, labs, and demonstrations. What is most valuable to me, however, is the chance to get together in one place with science-minded folk from all over Montana. This is not a little thing!

We've all heard the saying that Montana is a small city with really long roads between neighborhoods. Many of us ARE the science department in our district, and don't have access to other science teachers as sounding boards. MEA-MFT is an excellent place to do just that, no matter how many science teachers you have in your building or district. I always find myself challenged and rejuvenated after our annual conference.

You may ask why I am bringing the conference up now, in spring, when most of our time and thoughts are spent on getting this year finished up. We would love to have you consider presenting at this year's conference! The deadline has been changed to May 31, 2011, so you can still get in on this opportunity to share with others. You are welcome to present alone, with a partner, or even as a group. The more science teachers that are involved, the better the experience for everyone. You can sign up to present at www.mea-mft.org.

On a different vein, how many of us are getting our students outside? So many of today's youth are "nature-deficient". Do you do an activity outside to take advantage of the room available?

Have you created an assignment that requires students to be outside? There are many questions you might ask the students.

Where does the sun rise or set daily? What types of clouds are visible? What are average temperatures of different areas of an outside area? How does a solar oven work? How do ants behave when given a choice between regular and diet soda?

This summer will be a great time to catch up on some reading. A few books you might want to look into are "Survival of the Sickest: A Medical Maverick Discovers Why We Need Disease," by Dr. Sharon Moalem and "The Invention of Air," by Steven Johnson. In "Survival of the Fittest", you'll find yourself thinking about illness and genetics in a whole new way. "The Invention of Air" is about Joseph Priestley, oxygen, politics during the time of the American Revolution, and more. Both are very readable and interesting.

May the end of your school year go well and your summer be relaxing!

Shirley Greene

MSTA president



MSTA Information



The URL for the MSTA webpage is

<http://montanascience.org>

If you have trouble with that address, try

<http://www.ivymerriot.com/montanascience/index.html>

The page has many new listings and links, be sure to visit it often.

MSTA E-blast Listserv
to sign up, visit the website and
follow the E-blast link

New MSTA Board Members

University Representative: Mary Leonard, MSU-Bozeman

*Visit the MSTA Website for photos
of Board members and more!*

Here's a sample of what you'll find...

MSTA Officers
Board of Directors

<p>President</p>  <p>Shirley Greene greenes@billings.k12.mt.us</p>	<p>President-Elect</p>  <p>Beth Thomas Great Falls beth_thomas@gfps.k12.mt.us</p>	<p>Secretary</p>  <p>Shannon Walden Fort Benton shannon@mtintouch.net</p>	<p>Treasurer</p>  <p>Carol Pleninger Havre pleninger@havre.k12.mt.us</p>
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President Obama Honors Outstanding Math and Science Teachers April 28, 2011

WASHINGTON, D.C. -- President Obama today named 85 mathematics and science teachers as recipients of the prestigious Presidential Award for Excellence in Mathematics and Science Teaching. The educators will receive their awards in Washington, D.C. later this year.

The Presidential Award for Excellence in Mathematics and Science Teaching is awarded annually to outstanding K-12 science and mathematics teachers from across the country. The winners are selected by a panel of distinguished scientists, mathematicians, and educators following an initial selection process done at the state level. Each year the award alternates between teachers teaching kindergarten through 6th grade and those teaching 7th through 12th grades. The 2010 awardees named today teach kindergarten through 6th grade.

Winners of this Presidential honor receive a \$10,000 award from the National Science Foundation to be used at their discretion. They also receive an expense-paid trip to Washington, D.C., for an awards ceremony and several days of educational and celebratory events, including visits with members of Congress and the Administration.

President Obama has committed to strengthen science, technology, engineering and mathematics (STEM) education and prepare 100,000 effective science and mathematics teachers over the next decade. These commitments build on the President's "Educate to Innovate" campaign, which has attracted more than \$700 million in donations and in-kind support from corporations, philanthropies, service organizations, and others to help bolster science and technology education in the classroom.

"The teachers we honor today have demonstrated uncommon skill and devotion in the classroom, nurturing the young minds of tomorrow's science and math leaders," said President Obama. "America's competitiveness rests on the excellence of our citizens in technical fields, and we owe these teachers a debt of gratitude for strengthening America's prosperity."

Congratulations to
Courtney Niemeyer, Billings (Math)
Jon Konen, Great Falls (Science)

From Beth Thomas

This is a letter Beth shared with her colleagues at North Middle School in Great Falls before going overseas in April.

March 7, 2011

Dear Colleagues,

In September of 2009, I applied for a fellowship through the U.S. Department of State called the Teaching Excellence and Achievement Program (TEA). I was notified a year ago that I was selected to travel as a fellow in the year 2011. I have been placed in the community of Novoukrainka, Ukraine from April 16- April 30, 2011. The opportunity will allow me to co-teach and share best practices with Liuda, my host teacher. She teaches English and her student's range in age from 9-17. Liuda and I have several lessons/topics planned to work with and teach students about including the following:

- ◆ American holidays
- ◆ NASA
- ◆ Problem solving strategies
- ◆ Nature detectives
- ◆ Yellowstone National Park
- ◆ Ecology/Water

I will teach a full day professional development to other teachers in the area, with the following topics as a focus:

- ◆ Assessment Strategies
- ◆ Current Trends in Education
- ◆ Increasing comprehension (vocabulary and reading strategies)

However, this exchange is really about all of OUR students here at North and our community being able to learn about another culture while sharing our culture. Some of the things the students on our team will be doing or have done to participate are:

- ◆ Writing a KWL about Ukraine
- ◆ Defining "culture" and understanding American culture and how it is different from other cultures
- ◆ Writing letters to a Ukrainian student sharing about themselves and what a typical day might be like.
- ◆ Reading and participating in my blog:
 - <http://ursidaescience.blogspot.com/>
- ◆ Comparing environments – Ukraine is a steppe climate and I will be going on a four day trip to the Carpathian mountains on the west side of Ukraine with 15 students. In Ukraine, April is "ecology" month so we will be doing some environmental studies.

- ◆ Jeff, my student teacher, will be my guest teacher while I am in Ukraine. He and I are going to “Skype” with the students. However there is a nine hour time change.

I invite you to be involved with this exchange at whatever level you desire. If you would like the lesson ideas our team has utilized, I would be happy to share. In addition, if there is anything I can look for, take pictures of or try to find out about Ukraine while I am there, please contact me and we can visit. I am anticipating gaining new insights about another culture while working collaboratively with the people of the village where I will be. This experience directly relates to “global awareness and environmental literacy” as stated in the 21st Century interdisciplinary themes as stated by the Partnership for 21st Century Skills. Currently, I am voraciously reading everything I can about Ukraine and am trying to learn simple phrases. I invite you to embrace this opportunity.....your support is appreciated!

Sincerely,
Beth Thomas



Professional Development Opportunities for Teachers

Launch of MT OPI on iTunes U

Now educators and students can enjoy free content from Montana OPI on iTunes U, a dedicated area within the iTunes Store. Universities, colleges, schools, museums, and many other educational and cultural institutions from around the world have made content available at iTunes U. Montana joins a growing number of states that are taking advantage of iTunes U to allow access to educational content free of charge, 24 hours a day. Through Montana OPI on iTunes U, OPI is able to offer professional development content, instructional videos and classroom activities to teachers, students and the public.

For more information and to access Montana OPI on iTunes U, please go to our [iTunes resource page](http://itunes.apple.com/us/institution/montana-office-public-instruction/id404322009)

<http://itunes.apple.com/us/institution/montana-office-public-instruction/id404322009>

Project Archaeology Professional Development Courses

Join us for an exciting trip back in time to investigate a plains tipi archaeological site. Practice the basics of scientific inquiry (observation, inference, evidence, and classification) using authentic archaeological data. This course and the curriculum guide, *Project Archaeology: Investigating a Plains Tipi* will give you everything you need to engage kids in scientific methods. Your students will apply archaeological concepts as they investigate an archaeological tipi site. In your classroom, you can use the curriculum to fulfill many core requirements in Indian Education for All, science, mathematics, literacy, language arts, and art, while your students are discovering archaeology through engaging, interdisciplinary, hands-on activities. Investigating Shelter teaches six enduring understandings and all learning is guided by essential questions. In addition, you'll engage your students in civic dialogue using the information gained through genuine inquiry. This course is designed for upper elementary teachers. You will receive full instruction in archaeological science for the classroom and a complete curriculum guide, *Project Archaeology: Investigating a Plains Tipi*. Project Archaeology is offering the course in three locations this year.

For more information or to register please click on the link following the location. Bozeman (June 13-16, 2011)

<http://btc.montana.edu/courses/asp/descrip3.aspx?TheID=352>, Helena (July 18-21, 2011)

<http://btc.montana.edu/courses/asp/descrip3.aspx?TheID=361>, Virginia City (August 8-11, 2011)

<http://btc.montana.edu/courses/asp/descrip3.aspx?TheID=618>.

NSTA is pleased to announce that the deadline for applications to the [2011 New Science Teacher Academy](#) has been extended to July 1, 2011. Now entering its fifth year, the New Science Teacher Academy is one of NSTA's premier programs providing professional development and mentoring support to 2nd and 3rd year secondary science teachers.

Launched during the spring of 2007, NSTA in collaboration with the Amgen Foundation embarked on supporting 200 new science educators through the New Science Teacher Academy. Since its inception, the Academy has supported more than 600 teachers nationwide.

As you know, teachers play a critical role in inspiring a passion for science in our youth, while also managing the multiple demands and responsibilities thrust upon them each day as educators. Often times, teachers new to the profession feel overwhelmed, isolated and uncertain. They need support to not only just survive their initial classroom experience, but excel as professionals.

The NSTA New Science Teacher Academy supports these science teachers by blending consistent online professional development activities with face-to-face experiences. The Academy provides each teacher with a year-long, discipline-specific mentor, web-based content development courses and other resources, membership in the NSTA, and an opportunity to attend the National Conference on Science Education.

Please help us spread the word about this exciting opportunity and share this information with science teachers in their 2nd and 3rd year of teaching that you feel would benefit from this amazing experience. To find out more about the Academy and how to apply for a scholarship, visit www.nsta.org/academy or contact the project director, Damaries Blondonville, at dblondonville@nsta.org.

The Art and Science of Teacher Appreciation NSTA is extending Teacher Appreciation Day from May 3rd to all month long! We appreciate teachers every day, but we're shouting it louder this month by offering popular science-teaching resources at an extra 15% off through May 31, 2011. Click over to the [Sale Page at the NSTA Science Store](#) to browse the special offers, including books like *All in a Day's Work: 2nd Edition: Careers Using Science*; *Air, Water, and Weather: Stop Faking It! Finally*; *Understanding Science So You Can Teach It*; and *Hard-to-Teach Biology Concepts*.

Historic Flight of Shuttle *Endeavour*: A Teachable Moment in Your Classroom

The National Center for Earth and Space Science Education, as part of the Student Spaceflight Experiments Program on shuttles *Endeavour* and *Atlantis*, has provided [links to resources](#) that can make this historic moment a teachable moment. The resources include grade 5–12 appropriate essays with essential questions and classroom objectives that are relevant to: e.g., where the Shuttle orbits the Earth, the physics of a shuttle launch, the cause of microgravity (weightlessness), and the history, legacy, and future of human spaceflight.



Freebies for Science Teachers: Fun Learning in Bill Nye's Climate Lab

Emmy-award-winning science educator Bill Nye has become Bill Nye the Climate Guy—complete with his own Climate Lab—courtesy of Chabot Space & Science Center of Oakland, California. To accompany its new permanent exhibition, Bill Nye's Climate Lab, the center has created an educational website at www.BillsClimateLab.org for elementary and middle school teachers, students, and families. Join Nye in his free online lab for fun missions and activities to reduce energy consumption and thwart climate change. You can hunt down energy vampires, design a “green” home, grow a virtual garden—and compete to become a “Climate Champion”!

Bill Nye's Climate Lab is just one of the many free resources found at the [Freebies for Science Teachers website](#). You'll find links to all of your favorites from *NSTA Reports*—including the U.S. government freebies from the What's New column—as well as “extras” that couldn't wait until the next issue!

MSSE Offers both online and on campus Summer Courses

Graduate Studies > MSSE Home > Summer 2010 Campus Courses

Courses

Fall 2010 Online
Spring 2011 Online
Summer 2011 Courses
Register Online!

MSSE Program

Degree Program Highlights
Applying to MSSE Program
Course Catalog
Finances

MSSE Personnel

Faculty & Staff
Governance

**Intercollege Programs for
Science Education**
Montana State University
P.O. Box 172805
Bozeman, MT 59717-2805

Tel: (406) 994-5679
Fax: (406) 994-5575
E-mail: msse@montana.edu
Location: 401 Linfield Hall

Director:
Dr. Peggy Taylor

Summer 2011 Campus and Online Courses

Summer 2011 Campus Courses (Subject to Modification)

The Summer 2011 campus and online courses are open for registration. The courses marked "Tentative" will be opened for registration as soon as the final administrative approval is received.

June 13-17, 2011

- BIOL 520 [Understanding and Managing Animal Biodiversity in the Greater Yellowstone Ecosystem](#) (2 cr)
- BIOL 580 [Examining Life in Extreme Environments](#) (2 cr) OR CHMY 591 [Examining Life in Extreme Environment](#) (2 cr) **CO-LISTED COURSE**
- PHSX 591 [Night and Day Sky for Teachers](#) (2 cr)

June 15-17, 2011

- MB 538 [Cell and Molecular Biology](#) (1st wk of 2 wks) (2 cr)

June 20-21, 2011

- EDCI 580 [Teaching Inquiry in the Science Classroom](#) (2 cr) **Hybrid Course:** Campus portion June 20-21st in the evenings, Online portion June 20th-July 29th) - Campus attendance is encouraged, but not mandatory.

**Registration for Summer
2011 Campus and Online
Courses is open!**

[Summer 2011 Campus Bulletin](#)
[Course Details](#)
[Summer Activities](#)

Campus housing options:

Single or double dorm rooms in [Hannon Hall](#) - recommended for students staying three weeks or less

[University Guest Suites](#) - available through Family and Graduate Housing

Apartments, townhouses, houses - offered through [Family and Graduate Housing](#) and recommended for students staying longer than three weeks or traveling with families.

Check them out at montana.edu/msse

Refresh Your Instruction with a TI-Nspire™ Summer Workshop

2011 TI-Nspire Math and Science Summer Workshops

This summer is the perfect time to attend a T³ workshop on TI-Nspire™ technology. Learn how to bring TI-Nspire technology into your instruction.* T³ – Teachers Teaching with Technology™ Summer Workshops offer hands-on, subject-specific TI-Nspire and TI-Nspire CAS technology training to new and experienced educators.

You'll find out how to effectively use the latest graphing technology in your classroom. TI-Nspire and TI-Nspire CAS technology combines enhanced graphing capabilities with computer features to provide a more engaging way to explore concepts, extending beyond the possibilities of traditional graphing calculators.

Attend a "Getting Started with TI-Nspire" or "TI-Nspire for Intermediate Users" workshop and leave with ideas to energize your classroom and your very own TI-Nspire CX or TI-Nspire CX CAS handheld and TI-Nspire Teacher Software (included in the course cost).

*All workshops are appropriate for those using any TI-Nspire or TI-Nspire CAS handhelds.



Glacier High School in Kalispell, MT is hosting a summer workshop using technology for simulation and data collection in the science classroom. We are using Vernier's Data Quest application and probes on TI's newest handheld and data collection platform. Participants will get three days of training, a TI-Nspire CX handheld device and TI-Nspire software for \$350. The workshop will be August 15th – 17th.

To register check out either web site.

http://education.ti.com/educationportal/sites/US/nonProductMulti/pd_nspire_summer_workshops.html

<http://t3.morstein.net/>

Opportunities for Teachers and Students



Joshua Klaus | Director of Academic Programs

315 S. 4th St. E. | Missoula, MT 59801

406.721.8784 t | 406.721.7060 f

www.ecologyproject.org

Ecology Project International (EPI) invites high school science teachers and their students to participate in our **Yellowstone Wildlife Ecology Program** during summer 2011.

The seven day program allows students to collaborate directly with researchers from the **US Forest Service, the US Fish and Wildlife Service, and the Nature Conservancy** in and around **Yellowstone National Park**.

Thanks to generous support from the National Forest Foundation students in Montana are eligible to receive significant scholarship support to participate. Teachers who enroll six students participate for free and are eligible to receive OPI renewal units.

For more information about the program including a list of course dates, visit http://www.ecologyproject.org/promo/yellowstone_wildlife_ecology_program/

I have attached a brochure with more information about the course.

Courses fill on a first-come, first serve basis and we only have **scholarships for 50 students**. Contact EPI at enroll@ecologyproject.org or by calling 406.721.8784.

Lesson Ideas

NASA eClips has rolled out three new videos to captivate your students' minds and inspire their imaginations. This month NASA eClips presents:

Our World: What is the Solar System? (grades K-5)

Real World: Centripetal Force (grades 6-8)

Launchpad: Astrobiology (grades 9-12)

Our World has a new educator's guide available online. Shower Clock allows students to think and act like engineers and scientists as they follow the five steps of the Design Process to complete a team challenge successfully. Within this work, students design, measure, build, test and re-design a shower clock. Once the shower clock is built, students discuss ways to conserve and recycle water. Just visit:

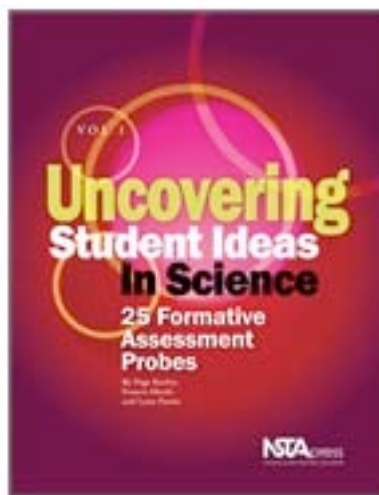
<http://www.nasa.gov/audience/foreducators/nasaclips/index.html>



The latest NASA Space Place column is now available. You can find both the article and its image on the "Partner Resources" web page at

[http://spaceplace.jpl.nasa.gov/partners/
Misconception Probes](http://spaceplace.jpl.nasa.gov/partners/Misconception%20Probes)

Here are some examples of misconceptions probes, an excellent tool to use as a pre or post assessment to determine students' misunderstandings with science concepts. The idea is to present a single science concept in story fashion where plausible responses are provided. One should be the correct responses and the other choices need to be common misconceptions related to the topic. It is important that you also include a...EXPLAIN YOUR REASONING prompt. This helps you probe deeper into students' understanding. When used as a pre-assessment, you can determine common misconception of your students and address those specifically through instruction. When used as a post-assessment, the instrument can be used to determine the effectiveness of instruction and learning and serve to re-direct if further instruction is necessary. Misconceptions probes are based on the work of Page Keeley and her books.



This and other complete volumes of Understanding Student Ideas in Science are available at the NSTA Bookstore.

Ice Cubes in a Bag

You are having an argument with your friend about what happens to the mass when matter changes from one form to another. To prove your idea, you put three ice cubes in a sealed bag and recorded the mass of the ice in the bag. You let the ice cubes melt completely. Ten minutes later you recorded the mass of the water in the bag.



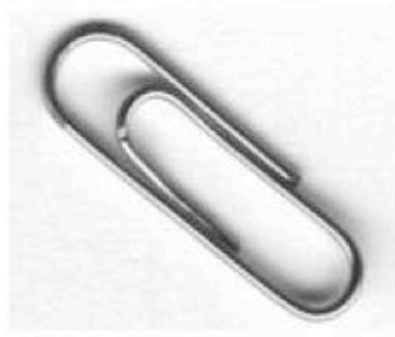
With which of the following statements do you agree and why?

___ The mass of the water in the bag will be less than the mass of the ice in the bag.

___ The mass of the water in the bag will be more than the mass of the ice in the bag.

___ The mass of the water in the bag would be the same as the mass of the ice cubes in the bag.

The Floating Paperclip?



Images from <http://gaijinkettlebell.files.wordpress.com/2009/05/tap-water-photo-robert-mclassus.jpg> & http://gallery.hd.org/_exhibits/office-motes/paperclip2-mono-DHD.jpg

Matt, Rayelynn, Art and John were discussing a question that involved a paperclip and a glass of water. Rayelynn said that she heard that a paperclip could be floated on the water. Matt disagreed, arguing that the paperclip would sink because it was metal and more dense than the water. Rayelynn reminded him that metal boats float, so maybe the paper clip would, too. Art said that he thought it would float because he knew water skippers could stand on water and thought the paperclip could, too. John thought that the paperclip would sink, not because it was metal, but because it did not display enough volume to allow it to float like a boat does.

With whom do you agree and WHY?

Circle one of the following:

Rayelynn...

Matt...

Art...

John...

Be sure to state WHY.

Misconception Probe: Birthday Candles



Image from <http://www.giftideas.co.uk/gifts/birthday-candles-1.jpg>

Imagine you are at a birthday party. A birthday cake with candles is put on a table in the middle of the room. The room is very large. You are standing at the end of the room, 10 meters away from the cake. You can see the candles. Circle the response that best describes how far the light from the candles traveled in order for you to see the flames.

- A The light stays on the candle flames
- B The light travels a few centimeters from the candle flames
- C The light travels about 1 meter
- D The light travels about halfway to where you are standing
- E The light travels all the way to where you are standing

Describe your thinking. Provide an explanation for your answer:

MSTA E-blast Listserv
to sign up, visit the website and
follow the E-blast link

**Be sure to sign up for the
MSTA E-blast**



Montana Science Teachers' Association

Teacher Award Opportunities

For information on awards, visit nsta.org

NSTA Awards

AWARD	WHO CAN APPLY	BRIEF DESCRIPTION
Robert H. Carleton Award–Dow	NSTA member	\$5000/citation/all expense paid trip
Ciba Middle/HS Teaching Awards	middle/high school science teachers	\$2000 prize/\$500 expenses
Ciba Middle/HS Principal Awards	middle/high school principals	\$2000 prize/\$500 expenses
DCAT Making a Difference Award	grades 6-12 science teachers	\$2500 prize to school/flight & 2 nights-principal and teacher
Delta Ed/Frey-Neo/CPO Science Award	preK-12 science teachers	\$1500 prize/\$500 expenses
Distinguished Informal Science Award	NSTA member	citation/3 nights hotel/\$500
Distinguished Service to Science Education Award	NSTA member	citation/3 nights hotel/\$500
Distinguished Teaching Award	NSTA member	citation/3 nights hotel/\$500
Faraday Science Communicator Award	not a science teacher/ but an individual or organization which promotes science	\$2500 expenses
Fellow Award	NSTA member	citation & pin
Legacy Award	NSTA member	\$500 expenses-family member/ 2 nights lodging
Maitland P. Simmons-Memorial Award for New Teachers	NSTA member	\$1000 expenses/certificate
Wendell G. Mohling Outstanding Aerospace Educator Award	K-12 science teachers	\$3000 prize/\$2000 expenses
SeaWorld/Busch Gardens Environmental Educator of the Year	K-12 science teachers	\$5000/all expense paid trip Deadline: November 28
Shell Oil Company	K-12 science teachers	\$10,000 prize/all expense paid trip/ finalists all expense paid trip
Sylvia Shugrue Award	elementary science teachers	\$1000 prize/\$500 expenses/citation
Vernier Technology Awards	K-12 science teachers	\$1000 prize/\$1000 products/\$1000 expenses
Zula International Awards	preK-2 science teachers with memberships in either NSTA, CESI, NAEYP, or NHSA	\$400 prize/\$1000 expenses

All award deadlines are November 30, except for Shell Oil Company which is October 15 and SeaWorld/Busch Gardens which is November 28.



30
\$10,000

WIN ONE OF THIRTY \$10,000
TECHNOLOGY GRANTS!

Win one of 30 \$10,000 technology grants from Vernier.
Deadline is June 1, 2011. [Vernier Technology Grant](http://www.vernier.com/30years/)
(<http://www.vernier.com/30years/>)

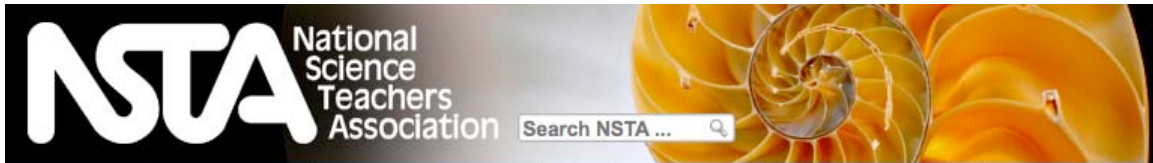
Win money for a school science lab "makeover" from NSTA.
Teachers of grades 6-12 can compete for money through
NSTA's Shell Science Lab Challenge. Deadline is January
2012. [NSTA Shell Science Lab Challenge](http://www.nsta.org/shellsciencelab/)
(<http://www.nsta.org/shellsciencelab/>)

NSTA's Shell Science Lab Challenge

Are you succeeding in science lab instruction with minimal equipment? Take NSTA's Shell Science Lab Challenge and share your exemplary approach for a chance to win a school science lab makeover support package valued at \$20,000!

Over \$93,000 in lab makeover prizes to be awarded this year!





Join NSTA and enjoy these benefits:

With more than 200 products and services available, membership in NSTA is one of the best professional development investments you can make. As an NSTA member, you will be part of a dynamic group of more than 55,000 dedicated science teachers, science supervisors, administrators, scientists, business and industry representatives, and others involved in and committed to science education and working toward the same goal—to promote excellence and innovations in science teaching and learning for all!

Go to
nsta.org

Nomination for MSTA Recognition Awards

If you know of a science teacher, university person, administrator or organization in Montana who deserves recognition for contributing to science education in Montana and beyond, please consider nominating them for an MSTA Award in one of the following areas:

Elementary	Earth Science	Chemistry
University member	Middle School Science	Biology
Distinguished Service	Physics	Administrator
Organization or Group		

Criteria for selection is based in part, but not limited to, the following: longevity or service, contribution to topic area, participation in MSTA and/or NSTA, presentation of workshops, improvement of fellow teachers and community service.

Nomination Form

Name _____ Award Area _____

Address _____

Current Position _____

Name and address of the person making the nomination:

Email address: _____

Attach a 500 word or less statement of why you are making the nomination. This statement may include the nominee's resume, educational background, teaching positions, awards and honors, leadership positions and professional activities.

Nominations may be emailed.

Send to

**Shirley Greene
3017 Montclair Dr**

Billings, MT 59102-4452

Mark Your Calendars

October 20-21, 2011 Missoula MSTA Conference in
conjunction with MEA-MFT



MSTA Officers

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MSTA Regions

