Two-Day Live Online Train-the-Trainer Institute

NEXT GENERATION SCIENCE STANDARDS
Training Your Grades 6-12 Science Teachers to More Effectively Incorporate NGSS into Their Science Instruction

Presented by ELIZABETH MIRRA
Presidential-Award-Winning Science Teacher, Science Coach and National Science Teacher Trainer

Specifically Designed for Educators Serving Grades 6-12: Science Department Heads, Team Leaders, Science Coaches, Science Coordinators, Science Teachers, Professional Development Trainers, and Administrators

› Train your science teachers to make the NGSS a more integral part of their instruction and assessments in grades 6-12

› Discover the overlap between science and engineering and how to help science teachers seamlessly integrate the two into science instruction

› Receive ready-to-use tools, templates, activities, an extensive NGSS digital resource handbook, and a PowerPoint slide presentation adaptable for immediate use to train teachers to better understand the shifts required to incorporate the NGSS into their instruction

› Time-efficient ways to develop your own instructional resources, units and assessments aligned with the NGSS

LIVE ONLINE INSTITUTE
December 3-4
9 AM Central, 10 AM Eastern,
8 AM Mountain, 7 AM Pacific

CAN’T ATTEND?
Order the recorded version and take the institute online at your convenience (see page 6)

CEUs and Graduate Credit Available
See page 6 for details

“Liz is very well educated on the NGSS and all of the ideas had examples, so it’s easy to implement. I feel confident to teach the rest of my department.”
– MELISSA JENSEN, TEACHER
A Practical, Two-Day Institute Focused on Supporting Science Teachers in Implementing the NGSS

Plan to attend as a school or district team, a representative team member, or district team leader and bring back the knowledge and skills to improve science instruction and student achievement. You will learn how to build on the strengths of your current science program, identify the instructional shifts that will have the greatest impact on student science achievement in your school or district, and develop a plan for implementation and improvement. Return to your school with highly effective professional development strategies and new resources to support and train your teachers to better incorporate the NGSS into their instruction whether teaching at school or online.

Structure Science Instruction for the Greatest Results—Boost Teacher Expertise AND Student Achievement

Discover the attributes of highly effective science instruction and learn how to inspire teachers to make the vision of the NGSS a stronger reality in their classrooms. Gain innovative ideas for conducting motivating and engaging professional development while deepening your own understanding of the NGSS. During the two days, you will learn how to help science teachers make better sense of the new standards, incorporate them into their instruction and create engaging and motivating learning opportunities that improve student mastery.

All participants will leave with an NGSS PowerPoint presentation and an extensive NGSS resource handbook with practical strategies, proven resources and helpful instructional planning guides that you can immediately put to use to train, motivate, inspire, and support your science teachers.
Support and Train Your Teachers to Incorporate the NGSS, Including:

- **Practical strategies** for supporting science teachers whether they are just beginning to work with the NGSS or are more experienced

- **Professional development activities aimed at helping teachers more deeply understand** the instructional implications of the NGSS and STEM

- **How to “unpack” a Next Generation Science Standard** to better understand what students need to know and be able to do … How to use this process in training other science educators

- **How to design science lessons and units** that incorporate the science and engineering practices, crosscutting concepts and disciplinary core ideas found in the NGSS

- **Specific examples and best resources** about STEM-related career choices to use with students

- **Where to find the most useful resources** that are aligned to the NGSS

- **Available tools to help teachers evaluate** how well instructional and curricular materials align with the NGSS

- **How to modify your existing curricular materials** to align with the Next Generation Science Standards

- **What three-dimensional learning is** and how to help teachers make it a stronger reality in their classrooms

- **How to help teachers develop classroom assessments and scoring guides** that assess three-dimensional learning

- **Strategies for helping teachers design science instruction** that allows ALL students to be successful

- **How to use anchoring phenomena, driving questions and a coherent storyline** to engage and motivate students

- **Research-based best practices** for boosting student achievement in science

- **How to help teachers use a “cascade of practices”** to design instruction that provides opportunities for students to use evidence to support modeling and explanations of their thinking

- **How to more effectively incorporate engineering design** into science instruction

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“Liz made the NGSS understandable and entertaining! New activities encouraged collaboration and interaction – all as we learned and experienced the ropes of the NGSS! Well done!”

– MARIA GONZALEZ, SCIENCE TEACHER

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To Register, Call Toll-Free

1-800-735-3503
Dear Colleague:

The Next Generation Science Standards represent the most current research on science and science learning. These new standards require us to make shifts in our instructional practices that can be a significant departure from the ways we have approached science instruction in the past. While it is an exciting time to be a science educator, I know many educators are overwhelmed by the new standards and unsure where to start when moving toward the NGSS.

In this practical, two-day train-the-trainer institute, I will share specific strategies, tools and the most current resources that you can begin to use immediately to help you and your teaching colleagues incorporate the Next Generation Science Standards into your science instruction. My goal is that you will walk away with highly effective practices that you can confidently implement in your classroom and easily replicate to inspire teachers in your school or district.

I will share highly effective ways to seamlessly integrate the science and engineering practices, crosscutting concepts and disciplinary core ideas into effective and engaging instructional sequences. Learn innovative techniques for creating a dynamic, student-centered classroom where students collaborate to make sense of real-world scientific phenomena and solve engineering problems. You will leave knowing how to better transform science classrooms into efficient and effective learning environments where critical thinking, hands-on science and project-based learning lead to increased student mastery of the new standards.

I invite you to join me for this valuable experience that will inspire and motivate you to return to your school better prepared to help science teachers immediately implement the resources and cutting-edge instructional techniques that support the NGSS. To help support this experience, you will be provided with an extensive NGSS resource handbook that has all the resources shared during the institute. I will respect your time by only sharing the best resources and strategies to help your students master the new standards. I look forward to meeting you at the institute!

Sincerely,

Liz Mirra

P.S. I’ll be sharing with you only the most practical and effective strategies from my own experiences teaching and coaching in science classrooms – these ideas really work!
What Your Colleagues Say About Liz Mirra

“I found this institute very informative. The information given will be a definite help in moving our department forward in aligning our classes to NGSS.” – Mary Ann Findling, Teacher

“Great! I now have a better idea of the NGSS.” – Margaret Warrem, High School Science Teacher

“Liz’s presentation is the first I have attended that finally pulled the NGSS together, making them realistic and feasible to implement in the classroom.” – Judy Crull, Science Teacher

“Liz is a fantastic presenter. I have attended a couple of NGSS seminars, but this was the most helpful.” – Kelley DeRosa, Science Teacher

“We were not just given concepts, we were given the strategies how to implement these concepts. Because of my better understanding of modeling and crosscutting concepts I will now be implementing these in my future science lessons.” – Patricia Ramsawak, High School Science Teacher

“Liz presents good, practical content on the NGSS. Nice shift from the current ways of teaching – kids will love it.” – Amandeep Singh, Science Teacher

“Liz is very knowledgeable and took time to answer all questions. She really changed the way I think about science education. I’m so excited to get back into my classroom!” – Emily Sandy, High School Biology Teacher

About BER Live Online Seminars

With the current health challenges, all BER in-person PD events are currently being presented in a Live Online format:

Outstanding Instructors
All programs are led by outstanding BER national trainers

Extensive Resource Handbooks
You’ll have access to an extensive digital Resource Handbook before, during and after your seminar

Highly Interactive
You’ll be able to ask questions in real time and interact with the instructor and other participants

Program Guarantee
As we have for 43 years, we guarantee the high quality of our programs. If you are not satisfied, we’ll give you a 100% refund.

Uniquely Qualified Instructor

ELIZABETH MIRRA is a science instructional coach and a middle and high school science educator with more than 18 years of experience. As a science teacher, she has remarkable success boosting students’ motivation and achievement in her science classes. She was involved in reviewing and providing feedback on the Next Generation Science Standards throughout their development and has worked with numerous school districts providing professional development on best science practices and assistance with aligning curriculum to the new standards. Elizabeth is the recipient of the prestigious President’s Award for Excellence in Science Teaching and is the author of NEXT GENERATION SCIENCE STANDARDS: Training Your Grades 6-12 Science Teachers: How to More Effectively Incorporate NGSS into Their Science Instruction, the extensive resource handbook each participant will receive at the institute.

Liz’s presentations are known for being filled with practical, engaging strategies and useful insights that will be helpful for you in your efforts to train and support other science teachers in better aligning their instruction to the Next Generation Science Standards.
You’ll Receive an Extensive NGSS Resource Handbook:
Each institute participant will receive an extensive NGSS resource handbook that is specifically designed for this institute. Included in the handbook are:
- Practical ideas for helping your students meet rigorous science content and practice standards, including those aligned with the Next Generation Science Standards
- Powerful strategies to increase student engagement and retention of core ideas from the new standards and STEM
- Innovative ideas for integrating the science and engineering practices and crosscutting concepts into your science instruction

Meet and Share with Other Science Educators
This institute provides a wonderful opportunity for participants to meet, share ideas and network with other secondary science educators who are helping to train and support science teachers in incorporating the NGSS.

Consultation Available
Elizabeth Mirra will be available at the institute for consultation regarding your questions and the unique needs of your own science program.

Earn One to Four Graduate Semester Credits
Up to four graduate level professional development credits are available with an additional fee and completion of follow-up practicum activities. Details for direct enrollment with Brandman University, part of the Chapman University system, will be available at this program.

Meet Inservice Requirements
At the end of the program, each attendee will receive a certificate of participation that may be used to verify hours of participation in meeting continuing education requirements.

Can’t Attend?
Other Professional Development Options:

Recorded Version of the Institute
This course will be video recorded and available to take online at your convenience. You’ll have access to the entire course and to the extensive digital resource handbook. Optional CEUs and graduate credit available. To enroll, see registration form on page 7.

Related On-Demand Online Course
A related On Demand Video-Based Online Learning course, Help Your Students Master the Next Generation Science Standards: Practical Strategies and the Best, New Tools, for Grades 6-12, is available for immediate registration. To enroll, visit www.ber.org/online

Who Should Attend
Educators Serving Grades 6-12:
Science Department Heads,
Team Leaders, Science Coaches, Science Coordinators,
Science Teachers, Professional Development Trainers,
and Administrators

“Liz presents a lot of great, useful information to begin to implement right away.”
—JACKIE MCLAIN,
MIDDLE SCHOOL TEACHER

On-Site Training
Most BER institutes and seminars can be brought to your school or district. See the options at www.ber.org/onsite or call 877-857-8964 to speak to one of our On-Site Training Consultants.
NEXT GENERATION SCIENCE STANDARDS:
Training Your Grades 6-12 Science Teachers to More Effectively Incorporate NGSS into Their Science Instruction

Registration (VCM1F1)

☐ 1. December 3-4, 2020 (Start time: 9 AM Central)
— or —

☐ 2. I'd like to order the recorded version of this institute.

First Name M.I. Last Name

POSITION, SUBJECT TAUGHT GRADE LEVEL

SEMINAR LOCATION NUMBER: (Please see list above)

List additional registrants on a copy of this form

SCHOOL NAME

SCHOOL MAILING ADDRESS

CITY & STATE ZIP CODE

SCHOOL PHONE NUMBER HOME PHONE NUMBER

Registration confirmations and login details are sent via e-mail

E-MAIL ADDRESS (REQUIRED FOR EACH REGISTRANT)

HOME MAILING ADDRESS

CITY & STATE ZIP CODE

IMPORTANT: PRIORITY ID CODE E VCM1F1

METHOD OF PAYMENT – Group Discount Available

The registration fee is $645 per person, for groups of three or more registering at the same time, the fee is $595 per person. Payment is due prior to the program. No cash please.

☐ A check (payable to Bureau of Education & Research) is attached

☐ A purchase order is attached, P.O. # (Be sure to include priority ID code on the P.O.)

☐ Charge my: □ MasterCard □ VISA □ Discover

Account # ___________________________ Exp. Date: ____________ MO/YR

Billing Zip Code: _________________ 3 Digit CVV Code: ____________ (Found on back of card)

Please print name as it appears on card Signature (required for credit card purchases)

PRE-REGISTRATION REQUIRED DUE TO LIMITED ENROLLMENT

Program Hours

• All Live Online seminars start times are described on the cover
• Check-in 15 minutes prior to the seminar
• Live Online seminars are five hours in length plus breaks
• Registrants will receive login information by email four days before their Live Online seminar

Fee

The registration fee is $645 per person, $595 per person for groups of three or more registering at the same time. Call us at 1-800-735-3503 for groups of ten or more. Payment is due prior to the program. Fee includes seminar registration, a certificate of participation and an extensive digital resource handbook. The fee is the same for Live Online Seminars or Recorded Seminars.

Cancellations/Substitutions

100% of your paid registration fee will be refunded if you can’t attend and notify us at least 10 days before the institute. Late cancellations made prior to the event date will be refunded less a $15 service fee. Substitutions may be made at any time without charge.

Further Questions

Call the Bureau of Education & Research (800) 735-3503 or visit us online at www.ber.org. The Bureau is North America’s leading presenter of PD training for professional educators. Programs are based on sound research, are highly practical in content and consistently receive excellent evaluations.

Program Guarantee

We stand behind the high quality of our programs by providing the following unconditional guarantee: If you are not satisfied with this program, we’ll give you a 100% refund of your registration fee.
Two-Day Live Online Train-the-Trainer Institute

Next Generation Science Standards (Grades 6-12)

- Train Your Staff to Effectively Incorporate NGSS into Science Instruction
- A Unique Two-Day Live Online Institute
- Practical PD, No Travel

Two-Day Live Online Train-the-Trainer Institute

NEXT GENERATION SCIENCE STANDARDS:
Training Your Grades 6-12 Science Teachers to More Effectively Incorporate NGSS into Their Science Instruction

A Unique Two-Day Live Online Train-the-Trainer Institute
(Also available as a Recorded Online Version to Use at Your Convenience)

Train your science teachers to make the NGSS a more integral part of their instruction in grades 6-12

Discover the overlap between science and engineering and how to help science teachers seamlessly integrate the two into science instruction

Receive ready-to-use tools, templates, activities, an extensive NGSS resource handbook, and a PowerPoint slide presentation adaptable for immediate use to train teachers to better understand the shifts required to incorporate the NGSS into their instruction