

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 ... Discover how to develop curriculum and assessments that align to the NGSS
- **Time-efficient ways** to develop your own instructional resources, units and assessments aligned with the NGSS
- **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

LIVE ONLINE INSTITUTE

December 9-10

**9 AM Eastern, 8 AM Central,
7 AM Mountain, 6 AM Pacific**

CEUs and Graduate Credit Available
See page 6 for details

CAN'T ATTEND?

Order the recorded version and take the course online at your convenience (see page 6)

“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

Practical Ideas and Strategies

Develop your knowledge, skills and confidence to lead your school or district toward more successful implementation of the *Next Generation Science Standards*. Over the course of two days, you will learn how to better help science teachers develop instruction that is dynamic, student-centered, exemplifies three-dimensional learning, and integrates science and engineering. In this unique opportunity, you'll gain valuable, research-based best practices for boosting student achievement in science. You'll leave with the most current resources to help science teachers better understand how to make the vision of the *NGSS* a reality in their classrooms and to better understand what the new standards require students to know and be able to do. You'll learn how to more efficiently develop classroom assessments and scoring guides that align with the *NGSS*. Whether you are new to the *NGSS* or an experienced specialist, you will find numerous new ideas, strategies, techniques, and activities that you can use immediately to increase the engagement, motivation and success of your students in science.

To help you train your teachers, Presidential Awardee for Excellence in Science, science coach, *NGSS* expert, and popular presenter **LIZ MIRRA** has developed this practical train-the-trainer opportunity you won't want to miss.

All participants will receive an extensive *NGSS* digital 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.

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.

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.



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*
- **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

“*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



**To Register,
Call Toll-Free**

1-800-735-3503

A Message From Your Institute Leader, Elizabeth Mirra



“*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.*”



Bureau of Education & Research

3000 Northup Way • PO Box 96068 • Bellevue, WA 98004
Phone (800) 735-3503 • Fax (425) 453-1134 • www.ber.org

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 *NGSS*.

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* digital 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 *NGSS*. 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 for 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

"Great and informative! Liz presented the best institute on NGSS I've attended!"

– Angelica Ramirez-Aguy, Teacher/Department Head

"I'm excited to implement the NGSS. I feel I now have the tools to make this possible!"

– Jaymie Mikeworth, High School Science Teacher

Uniquely Qualified Instructor

ELIZABETH MIRRA is a science instructional coach and a middle and high school science educator with more than 20 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 to More Effectively Incorporate NGSS Into Their Science Instruction*, the extensive digital resource handbook each participant will receive.

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.



Special Benefits of Attending



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.

Extensive NGSS Digital Resource Handbook

Each participant will receive an extensive NGSS digital resource handbook giving you access to countless strategies. The handbook includes:

- 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
- Proven step-by-step techniques for planning engaging instructional sequences aligned to the NGSS

Meet Inservice Requirements / Earn State CEUs

Participants of Live Online Institutes and those completing the Recorded Version online can receive a certificate of participation that may be used to verify ten continuing education hours. For details about state CEUs available, visit www.ber.org/ceus

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 may be found at www.ber.org/credit

Train-The-Trainer Institute

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

RESOURCE HANDBOOK

by Elizabeth Mirra



Bureau of Education & Research

Can't Attend?

Other Professional Development Options:



Recorded Version of the Institute

Order the recorded version of this institute to take online at your convenience. You'll have 90-day access to the entire course and to the extensive digital resource handbook. To enroll, see registration form on page 7, and for optional CEUs and graduate credit, please visit www.ber.org/credit



Related On-Demand Online Courses

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

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

Registration (VCX7F1)

- ☐ 1. **December 9-10, 2026** (Start time: 9 AM Eastern)
—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 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 (<u>REQUIRED</u> FOR EACH REGISTRANT)	
HOME MAILING ADDRESS	
CITY & STATE	ZIP CODE

IMPORTANT – PRIORITY ID CODE: EVCX7F1

METHOD OF PAYMENT – Group Discount Available

The registration fee is **\$695 per person**, for groups of three or more registering at the same time, the fee is \$645 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.)
- Cards accepted: MasterCard, VISA, Discover, AMEX

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MO/YR

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

Please print name as it appears on card

FIVE EASY WAYS TO REGISTER:

 **SCAN QR code or visit:**
at.ber.org/regVCX



 **EMAIL this form to: register@ber.org**

 **PHONE toll-free: 1-800-735-3503**
(Weekdays 5:30 am - 5:00 pm Pacific Time)

 **FAX this form to: 1-425-453-1134**

 **MAIL this form to: Bureau of Education & Research**
3000 Northup Way • PO Box 96068
Bellevue, WA 98004

Program Hours

All **Live Online** Institutes are scheduled 9:00 AM – 3:30 PM in the time zone indicated. Check in 15 minutes prior. Registrants will be sent login information by email four days before their Live Online Institute.

Fee

The registration fee is \$695 per person, \$645 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 Institute registration, a certificate of participation and an extensive digital resource handbook. The fee is the same for Live Online Institutes or Recorded Institutes.

WA residents: visit www.dor.wa.gov/TaxRateLookup to find your required WA sales tax rate.

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**

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.





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TWO-DAY LIVE ONLINE TRAIN-THE-TRAINER INSTITUTE ***NEXT GENERATION SCIENCE STANDARDS*** **(Grades 6-12)**

- **An outstanding two-day Live Online Train-the-Trainer Institute**
- **Includes an extensive Digital Resource Handbook**
- **Can't Attend? Order the Recorded Version to access online at your convenience**

VCX7F1

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 **(Or Order the Recorded Version to Access Online at Your Convenience)**

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 ... Discover how
to develop curriculum and assessments that align to the *NGSS*

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



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