

Improving Learning Outcomes for All Students in Your **SCIENCE Classroom** (Grades 6-12)



A Unique One-Day Live Online Seminar Presented by

Elizabeth Mirra

Outstanding Science Educator and National Presenter

**Specifically Designed for Educators Who Teach Science in
Grades 6-12: Classroom Teachers, Department Heads, Science
Specialists, and Administrators**

Practical strategies for designing science instruction to help ALL students achieve in science

Classroom-tested, research-based instructional strategies that work in diverse, inclusive science classrooms

Highly effective ways to more deeply incorporate the *Next Generation Science Standards* in your science instruction to improve student achievement

Proven techniques for selecting the right phenomena to engage even the most reluctant learners in science

LIVE ONLINE SEMINARS

January 5

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

January 19

9 AM Central, 8 AM Mountain,
7 AM Pacific, 10 AM Eastern

CEUs and Graduate Credit Available
See page 6 for details

CAN'T ATTEND?

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

*"Liz presents good,
practical content."*

— AMANDEEP SINGH,
SCIENCE TEACHER

Ten Key Benefits of Attending

"Liz is fantastic
and incredibly
engaging."

– TAMARA BARFIELD,
SCIENCE TEACHER



- 1. Dramatically Improve Science Learning Outcomes for ALL Students**
Discover proven strategies to help diverse students master the NGSS standards
- 2. Utilize Timesaving Techniques for Differentiating Science Instruction**
Discover time-efficient ways to differentiate science instruction to better meet diverse student needs ... Learn proven ways to provide enrichment and remediation in your science instruction
- 3. More Effectively Incorporate the *Next Generation Science Standards* in Your Science Instruction**
Learn from an enthusiastic secondary science teacher and national presenter practical ways to more effectively align your science instruction with the NGSS and improve the learning outcomes for *all* of your students
- 4. Engage Students Through Powerful Anchoring Phenomena**
Learn how to choose the best phenomena that will engage your students – even reluctant learners
- 5. Receive Take-Home Strategies for Scaffolding Scientific Writing**
Learn ready-to-use ways to scaffold scientific writing for English Language Learners and students with writing disabilities
- 6. Incorporate Formative Assessments Into Your Classroom Instruction**
Being able to monitor student understanding is essential to ensuring all students achieve the standards ... Uncover practical ways to streamline this process
- 7. Make Your Science Classroom More Three-Dimensional to Increase Student Success**
Learn how integrating science and engineering practices, crosscutting concepts and disciplinary core ideas into our daily science lesson plans is the key to meeting students' diverse needs and enabling their success in science
- 8. Create a Rigorous, Student-Centered Science Classroom**
Acquire strategies that encourage students to take greater ownership of challenging concepts
- 9. Help Students Make Greater Sense of Phenomena Through the Science and Engineering Practices**
The science and engineering practices are a game changer – they put students in positions of being knowers, doers and makers and are a critical component to promoting student equity ... Here's how
- 10. Receive an Extensive Science Digital Resource Handbook**
Each participant will receive an extensive digital resource handbook filled with practical strategies, lessons, tips, and much more to improve science learning outcomes

Who Should Attend

Educators Who Teach
Science in Grades 6-12:
Classroom Teachers,
Department Heads,
Science Specialists,
and Administrators

Outstanding Strategies You Can Use Immediately

What You Will Learn ...

- **Proven strategies** for helping diverse students in inclusive classrooms master the science standards
- **Where to find** engaging anchoring phenomena to drive instruction in your classroom
- **How to choose the phenomena** that will work best for the students in your classroom
- **What three-dimensional learning driven by a phenomenon can look like** in diverse, inclusive classrooms
- **Highly effective ways** to use the science and engineering practices to maximize students learning
- **Ways to make student thinking visible** and formatively assess students with limited English proficiency or writing disabilities
- **Practical ways** to differentiate instruction so that struggling students are supported and excelling students are challenged
- **Powerful techniques** for teaching students to engage in focused, productive science discourse
- **Proven strategies** for structuring and facilitating science talk and argumentation
- **Classroom-tested supports and scaffolds** to help English language learners and students with learning disabilities succeed with scientific writing
- **Where to find the best free paper-and-pencil and online assessments** that align with the NGSS
- **How to make assessments accessible and equitable** for all learners
- **Proven methods** to significantly increase student motivation in learning science
- **Practical ways** to use the science and engineering practices to strengthen your instruction and meet student learning needs



"Liz is professional, polished and approachable."

– DIANE GUIDA, HIGH SCHOOL SCIENCE TEACHER

Practical Ideas and Strategies

Science has been called "the great equalizer." It helps to create a scientifically literate population, creates career-ready students, and helps attract students to the fields of science and engineering. All students see increases in achievement when engaged in high quality science instruction and non-mainstream and less privileged populations see the greatest impacts from those learning experiences. So how do we create instructional opportunities that maximize these outcomes for all students? In this seminar specifically designed for Grades 6-12 science classroom teachers, learn the research-based classroom-proven strategies that have a positive impact on increasing student engagement and improving student outcomes in our increasingly diverse and inclusive science classrooms. ***You'll leave with tools and resources that you can take back and put to use immediately.***



A Message From Seminar Leader, Elizabeth Mirra



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 had 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 was the 2011 recipient of the prestigious President's Award for Excellence in Science Teaching and is the author of *Improving Learning Outcomes for All Students in Your SCIENCE Classroom (Grades 6-12)*, the extensive digital resource handbook each participant will receive.

Dear Colleague:

Each year our science classrooms are becoming more diverse and including students with a variety of backgrounds, learning differences, and prior knowledge of science. I know in my classroom, it's not uncommon to have a high performing student sitting next to a student that is a nonreader. There are also students with limited English proficiency, students with learning disabilities and students who have just transitioned back from an alternative placement in the same classroom. Most educators find it challenging to meet all the diverse needs of these very different students.

Fortunately, there are research-based strategies that I have personally implemented in my science classroom that have turned this seemingly impossible teaching scenario into a successful learning environment for my students. Come spend the day with me so that I can share with you how to increase your students' engagement and motivation in learning science, how to design learning opportunities that help ALL students master the science standards and how to create equitable and accessible assessments of student learning.

I invite you to join me for this valuable experience that will inspire and motivate you to return to your classroom and immediately implement the resources and cutting-edge instructional techniques I will share at this seminar. To help support this experience, you will be provided with an extensive digital resource handbook that includes the resources shared during the seminar. I will respect your time by only sharing the best resources and strategies to help ALL your students be successful in learning science.

I look forward to meeting you at the seminar!

Sincerely,

Liz Mirra

P.S. As an experienced secondary educator, I understand the extra effort it takes to be out of the classroom. I promise you that our day together will be worth your time and that **you will leave with dozens of ready-to-use, practical ideas and strategies** you can implement immediately.

"I will share with you how to increase your students' engagement and motivation in learning science."

What Your Colleagues Say About Elizabeth Mirra

*"We were not just given concepts, **we were given the strategies on how to implement many of these concepts.**"*

– Patricia Ramsawak, Earth Science High School Teacher

*"I enjoyed the day. Liz is engaging and I'm leaving with **practical, easy-to-implement tools for my classroom.**"*

– Dawn Giovanetto, High School Science Teacher

*"I appreciate the practical applications of the information. **I have new ideas for my lesson tomorrow!**"*

– Kathy Hafner, High School Biology Teacher

*"Great! **I now have a better understanding of the Next Generation Science Standards.**"*

– Margaret Warrem, High School 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

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

– Jaymie Mikeworth, Science Teacher/Dept. Head



About BER Seminars

Outstanding Instructors

All programs are led by outstanding, top-rated BER national trainers.

Extensive Digital Resource Handbook

You'll receive an extensive digital Resource Handbook full of practical strategies and resources.

Highly Interactive

You'll be able to ask questions, consult with the instructor, and share ideas with other participants.

Program Guarantee

As we have for 49 years, we guarantee the high quality of our programs. If you are not satisfied, we'll give you a 100% refund.

Special Benefits of Attending



"Liz gave a lot of great, useful information to begin to implement right away."

– JACKIE MCLAIN,
MIDDLE SCHOOL TEACHER

On-Site Training

Most BER seminars can be brought to your school or district in-person or online. See the options at www.ber.org/onsite or call 877-857-8964 to speak to one of our On-Site Training Consultants.

Extensive Digital Resource Handbook

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

- Step-by-step guides for implementing the strategies with your students in virtual or face-to-face learning environments
- Resources for making science learning accessible for all students in diverse, inclusive learning environments
- The best websites for finding free instructional and assessment materials that align with the *NGSS*
- Sample units for the content and grade level you teach that you could implement with students
- Classroom-tested templates and scaffolds for differentiating science instruction

Consultation Available

Elizabeth Mirra will be available for consultation regarding your questions and the unique needs of your own program.

Share Ideas with Other Educators

This seminar provides a wonderful opportunity for participants to share ideas with other educators interested in strengthening science student learning for their students.

Meet Inservice Requirements / Earn State CEUs

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

Earn One to Four Graduate Semester Credits



University of
Massachusetts
Global
A nonprofit
affiliate

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

Can't Attend?

Other Professional Development Options:



Recorded Version of the Seminar

Order the recorded version of this seminar 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

Improving Learning Outcomes for All Students in Your SCIENCE Classroom (Grades 6-12)

Registration (COM7W1)

- ☐ **1. January 5, 2027** (Start time: 9 AM Eastern)
- ☐ **2. January 19, 2027** (Start time: 9 AM Central)
- or—
- ☐ **3. I'd like to order the recorded version of this seminar**

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 (REQUIRED FOR EACH REGISTRANT)

HOME MAILING ADDRESS

CITY & STATE ZIP CODE

IMPORTANT – PRIORITY ID CODE: ECOM7W1

METHOD OF PAYMENT – Team Discount Available

The registration fee is \$295 per person, for teams of three or more registering at the same time, the fee is \$275 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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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 Seminars 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 Seminar.

Fee

The registration fee is \$295 per person, \$275 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.

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

Cancellation/Substitutions

100% of your paid registration fee will be refunded if you can't attend and notify us at least 10 days before the seminar. 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.

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.

Further Questions

Call the Bureau of Education & Research (800) 735-3503 or visit us online at **www.ber.org**



COM7W1

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An outstanding one-day Live Online Seminar

Includes an extensive digital Resource Handbook

Can't Attend Live? Order the Recorded Version
to access online at your convenience

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Strengthen Student Learning in SCIENCE (Grades 6-12)

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Improving Learning Outcomes for All Students in Your SCIENCE Classroom (Grades 6-12)

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Live Online Seminar or
Recorded Version



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

Presented by

Elizabeth Mirra

Outstanding Science Educator and National Presenter

Practical strategies for designing science instruction to help ALL
students achieve in science

Classroom-tested, research-based instructional strategies that work
in diverse, inclusive science classrooms

**Highly effective ways to more deeply incorporate the Next
Generation Science Standards** in your science instruction to improve
student achievement

Proven techniques for selecting the right phenomena to engage even
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