Bureau of Education & Research

Live Online Seminar or Recorded Version

AI for SCIENCE Teachers: Strengthening Learning, Saving Teacher Time, and Inspiring Innovation (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, and Administrators

Practical strategies for using AI to improve student engagement and learning in science

Highly effective ways to leverage AI to improve teacher productivity

Resources and strategies for avoiding and solving ethical concerns around integrating AI into classroom instruction and assessments

Receive an extensive digital resource handbook full of practical resources and tools you can immediately implement in your science classroom

LIVE ONLINE SEMINARS

March 1

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

March 12

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 seminar online at your convenience (see page 6)

"The seminar was excellent. I was impressed with Liz's breadth of knowledge."

– NICHOLAS GAGNON, 8TH GRADE SCIENCE TEACHER

Ten Key Benefits of Attending

"Well researched. Liz was knowledgeable and I appreciated the fact that she is a science teacher. She made the topic relatable."

– TONI YOUNG, TEACHER



1. **Explore AI Tools**
   Explore the latest AI tools that are most impactful in Science classrooms … Discover how to leverage them for both instruction and planning

2. **Utilize Timesaving Techniques for Differentiating Science Instruction**
   Discover time-efficient ways to use AI to differentiate science instruction to better meet diverse student needs and support varying levels of readiness

3. **Best AI tools for Planning Lessons That Align with Three-Dimensional Standards**
   Avoid pitfalls associated with AI technologies while ensuring your lessons remain purposeful, accurate and standards aligned

4. **Learn to Use AI to Find Powerful Anchoring Phenomena That Engage Students**
   Learn to utilize AI to find engaging, local phenomena that will spark curiosity, deepen inquiry, and connect science concepts to real-world applications

5. **Teach Students to Use AI Responsibly and Ethically**
   Receive resources and strategies for improving students' understanding of the ethics of AI and guide them toward responsible and thoughtful use

6. **Explore AI Technologies for Formative Assessment**
   Being able to monitor student understanding is essential to ensuring all students achieve the standards … Uncover practical ways to streamline this process

7. **Consider How AI is Used in Your Classroom**
   Explore considerations for what constitutes acceptable student use of AI in your classroom and how to set clear boundaries that promote integrity and learning

8. **Use AI to Create a Rigorous, Student-Centered Science Classroom**
   Acquire strategies that encourage students to take greater ownership of challenging concepts while fostering independence and critical thinking skills

9. **Strengthen Student Learning of Science Concepts**
   Use AI to create engaging learning experiences and simulations that help students better understand and retain complex scientific ideas

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, and Administrators

Outstanding Strategies You Can Use Immediately

What You Will Learn ...



- **Proven strategies integrating AI** into science classrooms
- **Which AI platforms are best suited** for science classrooms
- How to use **AI to find anchoring phenomena** that will work best for the students in your classroom
- **How to leverage AI technologies** to save time and reduce burnout
- How to **use AI to develop three-dimensional lesson plans**
- How to **use AI to develop formative assessments**
- **Practical ways use AI to differentiate instruction** so that struggling students are supported and excelling students are challenged
- **Effective ways to teach students to use AI ethically** in their science learning
- **Specific examples of acceptable use policies for AI** in science classrooms
- **Practical ways to break down more complex science topics** using AI
- **Pitfalls to watch out for when using AI** for lesson planning and assessment design
- **How to design AI projects and explorations** with students that align with standards



"Liz was excellent! Highly knowledgeable and clear with her instruction. Content was accessible and easy to manage. Would highly encourage this course as an opener to those interested in learning, or to those who already have a good knowledge base."

– HANNAH CASTANEDA, TEACHER

Practical Ideas and Strategies

Discover how AI can save you time, spark curiosity, and strengthen science learning in your classroom! In this **NEW** live online seminar, award-winning science teacher and national presenter **ELIZABETH MIRRA** will share innovative ways to integrate AI into lesson design, assessment, and differentiation—all aligned with today's science standards. Explore engaging examples, uncover powerful tools, and gain ready-to-use strategies that will enhance your instruction while helping students use AI responsibly and ethically. Join Elizabeth for a fast-paced, idea-packed day filled with actionable strategies, time-saving techniques, and innovative applications of AI that will energize your teaching and enhance your students' science learning. Walk away with fresh ideas and practical resources you can apply immediately to create a more dynamic, student-centered science classroom.



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 *AI for Science Teachers: Strengthening Learning, Saving Teacher Time, and Inspiring Innovation (Grades 6-12)*, the extensive digital resource handbook each participant will receive.

Dear Colleague:

From ChatGPT to TikTok algorithms to shopping recommendations, Artificial Intelligence (AI) is increasingly embedded in our lives and its impact on education continues to grow. We are past the point of being able to ignore or simply ban AI from our schools and classrooms; instead, we need to understand how to leverage these technologies to improve student outcomes, differentiate instruction, and improve student engagement while teaching students how to navigate these tools ethically.

Based on my years of experience as a science educator, I'm excited about the potential of AI tools to transform the way we teach and how our students learn science. In this seminar, we will explore the AI platforms that are the best suited for science classrooms and learn how to best utilize these technologies to streamline our practice while improving outcomes for students. I will teach you to avoid the common pitfalls associated with AI technologies and provide you with practical, effective tools and strategies you can use to teach your students how to use AI ethically and responsibly.

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,



Elizabeth 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.

"We will explore the AI platforms that are the best suited for science classrooms and learn how to best utilize these technologies to streamline our practice while improving outcomes for students."

What Your Colleagues Say About Elizabeth Mirra

*"The resources alone were worth the cost of admission and participation, but **Liz clearly knew her stuff.** She was a great additional resource to help place the different platforms in context, knowing the particulars of each (especially the pluses and minuses). A great professional development experience."*

– James Nugent, Teacher

*"**One of the most relevant and useful trainings I've attended in years!** Really appreciate Liz's contributions, her materials, the structure of the training, etc. Thank you so much!"*

– Kendall Jensen, Science Teacher

*"Liz was awesome. She made an hours-long Zoom seminar **so interactive and worthwhile**."*

– Kathryn Potter, Science Teacher

*"I really enjoyed the presentation. **I learned a lot and have lots to explore!** This should make my life a bit easier."*

– Kristin Solberg, Science Teacher







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 50 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



"Excellent job, Liz! You were very well prepared. I greatly appreciated the handbook and all of the digital resources."

– SARAH FYE,
CHEMISTRY TEACHER

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 Science students
- Resources for making Science learning accessible for all students
- The best websites for finding free instructional and assessment materials that align with the *NGSS*
- Sample Science units for the content and grade level you teach that you can implement immediately with your students
- Classroom-tested templates and scaffolds for differentiating Science instruction

Share Ideas with Other Educators

This seminar provides a wonderful opportunity for participants to meet and share ideas with other educators interested in integrating AI into their Science classrooms.

Consultation Available

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

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

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.

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

AI for SCIENCE Teachers:
Strengthening Learning, Saving Teacher Time, and Inspiring Innovation
(Grades 6-12)

Registration (CAM7S1)

☐ **1. March 1, 2027** (Start time: 9 AM Central)
☐ **2. March 12, 2027** (Start time: 9 AM Eastern)
—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: ECAM7S1

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

Account # _____ Exp. Date: _____ MO/YR

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

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Please print name as it appears on card

FIVE EASY WAYS TO REGISTER:

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

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
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**



CAM7S1

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An outstanding Live Online Seminar

Includes an extensive digital Resource Handbook

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Presented by

Elizabeth Mirra

Outstanding Science Educator and National Presenter

- **Practical strategies for using AI** to improve student engagement and learning in science
- **Highly effective ways to leverage AI** to improve teacher productivity
- **Resources and strategies for avoiding and solving ethical concerns around integrating AI** into classroom instruction and assessments
- **Receive an extensive digital resource handbook** full of practical resources and tools you can immediately implement in your science classroom