Bureau of Education & Research

Live Online Seminar or Recorded Version

Maximizing Student Engagement and *NGSS* Proficiency Through Phenomena-Driven Strategies

(Grades 6-12)

A Unique One-Day Live Online Seminar Presented by

Marjorie Porter

Experienced Science Teacher and Outstanding National Presenter

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

Easy-to-implement strategies proven to strengthen scientific inquiry, academic discourse and collaboration

Discover **evidence-based tools, lessons and techniques** proven to support phenomena-driven instruction that aligns with the *NGSS*

Practice effective techniques and methods to help you design, implement and deliver **highly rewarding 3D learning experiences centered on phenomena**

LIVE ONLINE SEMINARS

January 21

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

January 30

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)

"Marjorie's enthusiasm is contagious. I'm excited to take back what I've learned today!"

Ten Key Benefits of Attending

'A lot of great information. I will spend time going through and gaining useful strategies from it.'

1. **Incorporate Powerful, Phenomena-Driven Lessons to Invigorate Your *NGSS* Classroom**
   Learn from an outstanding secondary science teacher and national presenter about how you can breathe new life into your science program using phenomena-driven instruction … Practical strategies that you can use immediately!

2. **Discover the Key Components for Incorporating Motivating Phenomena**
   You don't have to start from scratch! See how you can strengthen your existing program, units and lessons by incorporating phenomena that directly engage learners in the *practices* of science

3. **Use Phenomena-Driven Instruction to Tap Into Students' Natural Curiosity**
   Experience science from the student perspective – how they observe, interpret and develop meaning through science and the world around them

4. **Learn to Design and Facilitate Practical, Phenomena-Driven 3D Lessons**
   Discover how to construct and facilitate rich learning experiences, launched by the power of puzzling discrepant event phenomena

5. **Learn Highly Effective Strategies for Incorporating Engaging Discourse and Argumentation**
   Powerful strategies to construct, integrate and facilitate meaningful collaboration, dialogue and argumentation into your daily lessons

6. **Obtain Access to an Enormous Collection of *NGSS*-Aligned 3D Lessons You Can Use Immediately**
   Fully developed and field-tested, inquiry-based lessons that center around phenomena … Ready for you to use in your own science classroom

7. **Learn to Facilitate a Science Classroom That is More Student-Centered**
   Learn a variety of outstanding techniques that will fully focus your students on the key concepts and skills of the *Next Generation Science Standards* and will provide multiple opportunities for students to engage with the practices of science

8. **Help Students to Use Visual Phenomena to Strengthen Critical Thinking**
   Learn research-based strategies for engaging learners using "visuals" to support their recognition and understanding of science ideas and concepts

9. **Maximize Proven Techniques for Using Science Phenomena to Embrace the *NGSS* Practices of Science**
   Familiarize yourself with research-based methods for enhancing existing lessons through the creative incorporation of the science practices in ways that encourage learners to actively question, investigate, analyze and interpret data, engage in arguments from evidence, and construct explanations

10. **Receive an Extensive Digital Resource Handbook**
    Each participant will receive an extensive digital resource handbook filled with practical strategies, lessons, tips, and much more to help you use phenomena to meet the *NGSS* in your science classroom

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 ...

- Dozens of **ideas for using phenomena to engage, excite and generate curiosity** in your *NGSS* classroom
- **Proven methods** to immerse students in real-world science scenarios to increase motivation and learning and incorporate the science and engineering practices
- **How to provide multiple opportunities** for your students to practice and master the *NGSS* skills and concepts
- **Practical ways to strengthen your science instruction** using the science and engineering practice of modeling
- Ways to **align your science curriculum with the *NGSS* goals and objectives** focused on phenomena
- Tools for incorporating inquiry-based practices to **develop a more student-centered, *NGSS*-aligned classroom**
- Strategies for **incorporating discourse and argumentation** into your classroom
- Examples of unique **natural phenomena that can be immediately implemented** in your instruction
- **Dozens of concrete examples, methods and strategies** to strengthen and reinforce your science instruction and align it with the *NGSS*
- **Field-tested phenomena** that can immediately be used to anchor science lessons
- How to **use students' wonder and curiosity** for natural phenomena to drive learning and strengthen motivation

"This was exactly what I needed, and I am so happy I attended. It was a fantastic experience and perfectly run."

Practical Ideas and Strategies

Join **MARGE PORTER**, outstanding science teacher and national presenter, for an empowering **NEW** seminar designed specifically for Grades 6-12. Throughout this fast-paced seminar, Marge will share dozens of proven learning tools that can be easily implemented in any secondary science classroom. This highly engaging seminar will equip you with new, practical strategies to engage your students and enhance their ability to apply evidence, improve reasoning, and increase sense-making. From highly collaborative activities to hands-on investigations, you will discover innovative ways to captivate your students' interest and foster a deep understanding of scientific concepts. Marge will guide you through the most effective tools and resources to facilitate class discourse, encourage collaborative, strengthen problem-solving skills, and promote independent thinking among your students.

Don't miss this invaluable opportunity to transform your teaching and inspire your students to become active participants in the scientific process. Join Marge Porter for a day of practical strategies and discover how to more easily engage your students, enhance their reasoning skills, and ignite their passion for science.

A Message From Seminar Leader, Marge Porter

Uniquely Qualified Instructor

MARJORIE (MARGE) PORTER has completed extensive graduate work beyond her Master's in the field of science education and has worked as a research assistant in both the Arctic and the Antarctic regions. She has over 30 years of experience as a high school and middle school science teacher. Marge is passionate about the need to involve young people in authentic science investigation, knowing that it is essential to their overall development and eventual career choice. She conducts *NGSS* and *STEM* professional development seminars in science, both regionally and nationally. Marge is the author of *Maximizing Student Engagement and NGSS Proficiency Through Phenomena-Driven Strategies (Grades 6-12),* the extensive digital resource handbook you will receive at the seminar. You won't want to miss this engaging and highly practical day to learn how to strengthen science learning.

Dear Colleague:

I applaud your passion and enthusiasm for embracing "the phenomenon" as a mechanism for engaging learners in the practices of science. In this engaging seminar, we will use puzzling events, visuals, and classroom activities to play on your students' natural curiosity in ways that will strengthen their collaborative problem-solving skills. The *Next Generation Science Standards* provide a framework for learning and are a vital component to any science curriculum or program. Developing our students' ability to ask investigable questions, find and apply evidence, and increase sensemaking takes much practice and guidance.

Providing students with authentic, relevant learning opportunities is the first step to improved sensemaking. As students actively try to "figure out" puzzling science phenomena, we want them to work collaboratively as they apply evidence to explain and understand how the world works and to build on past understandings. How can you become a facilitator who implements engaging, practical, and effective ways for students to construct their own learning? Join me to find out!

During my strategy-packed seminar, I will provide dozens of learning tools and ideas to help you to encourage students to engage in inquiry, share their observations and wonderings, and to prepare them to draw logical, evidence-based conclusions. Throughout our day together, I will share effective, research-based instructional ideas and dozens of quality teaching resources that are certain to energize and motivate you and your students. My goal during this interactive and dynamic seminar is to help you bolster your students' ability to use complex phenomena to find and apply evidence by implementing standards-based strategies that will greatly impact your teaching and that will support your efforts to develop a new generation of science leaders.

I'm hoping that you will leave feeling empowered and motivated!

Sincerely,

Marge Porter

P.S. As an experienced secondary teacher, 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 in your science classrooms**.

"I will provide dozens of learning tools and ideas to help you to encourage students to engage in inquiry, share their observations and wonderings, and to prepare them to draw logical, evidence-based conclusions."

What Your Colleagues Say About Marge Porter

"I thought the presenter was very engaging and interesting. I learned a lot. ***The materials were great! I loved the examples of lessons.*** *Everything was very visual. I learned so much and am eager to start using these great ideas in my lessons."*

"Well presented with lots and ***lots of resources!****"*

*"****This was a very informative session with an enormous number of resources*** *and a very knowledgeable instructor!"*

"I enjoyed the seminar and found ***the information and resources to be very helpful.****"*

"Marjorie had excellent resources all put together in one place. ***This is a vital PD for science teachers.****"*



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.

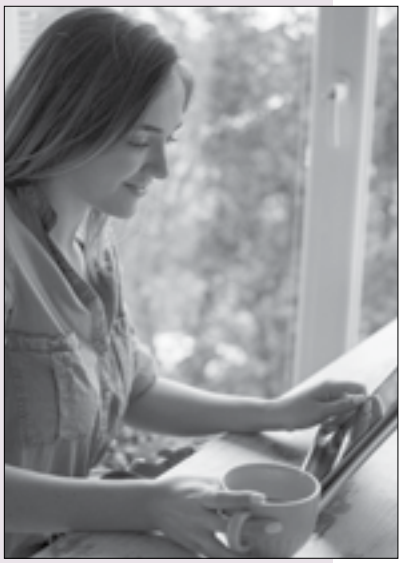
Highly Interactive

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

Program Guarantee

As we have for 48 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



Extensive Digital Resource Handbook

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

- Innovative resources ready for immediate use in your science classroom
- Practical ideas to help you develop and strengthen your curriculum toward the *NGSS*
- Classroom-tested techniques to deliver the most rewarding learning outcomes for discrepant event demonstrations
- An in-depth guide to selecting the most rewarding discrepant event demonstrations

Share Ideas with Other Educators

This seminar provides a wonderful opportunity for participants to share ideas with other educators interested in enhancing their science program.

Consultation Available

Marge Porter 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

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

"Enjoyed her presentation style and gained a lot of resources that I can share with my district."

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

Maximizing Student Engagement and *NGSS* Proficiency Through Phenomena-Driven Strategies (Grades 6-12)

Registration (CN66W1)

☐ **1. January 21, 2026** (Start time: 9 AM Central)
☐ **2. January 30, 2026** (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: ECN66W1

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)

_____
Please print name as it appears on card

FIVE EASY WAYS TO REGISTER:

SCAN QR code or visit: **at.ber.org/regCN6**

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**
915 118th Avenue SE • PO Box 96068
Bellevue, WA 98009-9668

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**

CN66W1

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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

CN66W1

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