

Cutting Edge Tools and Strategies for Teaching Science (Grades K-6)



A Unique One-Day In-Person Seminar or Live Online Seminar
Presented by

Marjorie Porter

Outstanding Educator and National Presenter

Specifically Designed for Educators Serving Grades K-6: Classroom Teachers, Science Specialists, Instructional Coaches, Technology Integration Specialists, Instructional Assistants, and Administrators

Practical strategies for successfully incorporating **engaging and motivating science lessons** into your daily instruction without spending hours of extra planning time

Exciting practical ways to **integrate science inquiry, content, and process** into any existing science program

Resources, lessons, and ideas that will strengthen and encourage creativity and innovation whether you teach in-person or online

Receive an **extensive K-6 Science resource handbook** filled with dozens of ideas, tools, and strategies

CAN'T ATTEND?

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

California

Anaheim (Garden Grove) – February 8

Ontario – February 7

Maine

Portland – December 14

(South Portland)

New Hampshire

Manchester – December 15

New York

Albany – December 16

Long Island – December 13

(Plainview)

Oregon

Portland – February 9

Washington

Seattle (Bellevue) – February 11

Spokane – February 10

LIVE ONLINE SEMINAR

December 10

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

CEUs and Graduate Credit Available
See page 6 for details

Ten Key Benefits of Attending

"Marjorie was excellent! She provided great information for STEM related activities and ways to build on students' natural curiosity."

– MARISSA WATERS,
STEM COACH



Who Should Attend

Educators Serving Grades K-6: Classroom Teachers, Science Specialists, Instructional Coaches, Technology Integration Specialists, Instructional Assistants, and Administrators

- 1. Learn Ways to Stimulate and Sustain Student Curiosity**
Obtain resources and ideas for actively engaging students in science topics and practices
- 2. Receive Tools and Templates for Helping Learners “Figure Out” Science Phenomena**
Discover a variety of tools that will allow you to engage students with compelling, relevant, and puzzling phenomena ... Practice strategies that will help them to develop explanations, make predictions, and reject misconceptions
- 3. Strengthen Your Existing Science Program by Delving into the “Practices” of Science**
Become familiar with valuable tools that will immediately allow you to step aside as “facilitator” while your students ask testable questions, develop explanatory models, design investigations, collect and interpret data, construct explanations, and obtain & communicate information
- 4. Discover Research-based Protocols for Helping Learners to Support Their Ideas with Evidence**
Encourage your students to be active and innovative participants in inquiry-based classroom learning, using strategies to help them to develop and refine high-quality questions and support scientific claims with evidence and reasoning
- 5. Learn Techniques for Integrating Science With Other Disciplines Such as Language Arts, Math, Social Studies, and Art**
Understand how science can serve as a cornerstone for practicing and learning content in all areas ... Learn how to provide opportunities for students to see how subjects are interwoven
- 6. Receive Time-saving Tips for Finding Valuable Free Resources That Will Bolster Your Science Curriculum**
Receive dozens of ready-to-use ideas and resources that will help you fine-tune what you’re already doing to save hours of time spent planning and searching for what works
- 7. Explore the BSCS “5E” Model for Immersing Learners in the Process of Science**
Get the tools you need to guide students through the scientific process, and view multiple examples of how it works
- 8. Enhance Existing Lessons and Activities by Incorporating Engineering and Design**
Encourage creativity and invention with meaningful activities that involve collaboration ... Practice and learn simple strategies to engage your students in 21st century learning through exploration, innovation and problem solving – all key skills for future success
- 9. Become More Familiar with How to Use Simple and Inexpensive Technologies in Ways That Will Strengthen Your Students’ Understanding of Science**
Excellent examples of websites, apps and tools that will help your students become actively engaged in the process of science, by collecting data and monitoring environmental change
- 10. Receive an Extensive Resource Handbook**
Each participant will receive the extensive resource handbook designed specifically for this seminar that is filled with dozens of ideas, tools and strategies for strengthening science learning in grades K-6

Outstanding Strategies You Can Use Immediately

What You Will Learn ...

- Practical tips and strategies for successfully **weaving science into your curriculum in ways that will foster curiosity** and wonder
- Dozens of **useful, classroom-ready ideas and tools to encourage and strengthen science understanding** through challenging and collaborative learning experiences
- Proven methods for **helping children to explore the natural world** and become “citizen scientists”
- **Numerous step-by-step protocols** for transitioning to a more inquiry-focused classroom
- Easy-to-follow strategies for developing **phenomenon-anchored science activities**, lessons, and units
- **Unique approaches** to encourage (and facilitate) the practices of questioning, investigating, modeling, designing, and creating
- Examples of useful applications and tech resources that will **motivate and inspire your students in science**
- **Timesaving prompts for building progressive monitoring assessments** that measure deeper learning
- Detailed guidelines for **integrating the practices of scientific discourse** and explanatory modeling
- **Where to find outstanding resources** for incorporating authentic instructional strategies that model real-world science process skills
- Innovative ideas for enhancing your classroom reading list with **highly recommended science trade books**
- **The newest resources** for fostering and maintaining student interest in science-related careers



“Marjorie was a delight! Her passion for her field and sharing was refreshing and contagious. I left with an abundance of ready-to-use materials that can be easily incorporated into my lessons!”

—TRACY BEGLEY, STEM COACH

Practical Ideas and Strategies

Without question, you have a passion and enthusiasm for teaching, but probably lack the time and resources necessary to research and develop practical science lessons that engage your students, increase their motivation to learn, and do not take a lot of your limited time. In this **NEW**, highly practical and engaging seminar, you will discover an extensive collection of ideas and practical strategies for Grades K-6 Science. You will leave with dozens of classroom tested strategies proven to motivate and encourage learners in scientific discovery and design. These new ideas and valuable resources will enhance science learning.

Throughout the day, **MARGE PORTER**, an exemplary science teacher, presenter and education consultant, will show you how to leverage student curiosity to facilitate knowledge construction, how to access the most innovative and tech-centric websites and programs, and how to create lessons that will motivate students and maximize their learning of science. You will receive a wealth of innovative ideas for including engineering, reading, writing, and math in your science instruction to enhance your students’ ability to master essential skills and concepts.



A Message From Seminar Leader, Marge Porter



Uniquely Qualified Instructor

MARJORIE (MARGE) PORTER has extensive experience teaching science and guiding curriculum development. She is a graduate of the rigorous “NGSX” Science Exemplar training program, and conducts professional development seminars in science, both regionally and nationally. She is passionate about the need to involve young children in authentic science investigation, knowing that it is essential to their overall development and eventual career choice. Marge truly enjoys opportunities to work with and support educators in their efforts to encourage science exploration and inquiry in their classrooms. She now specializes in developing STEM and cutting edge science strategies for classroom educators and is committed to the creative use of technology to enhance and support student learning.

Marjorie is the author of *Cutting Edge Tools and Strategies for Teaching Science (Grades K-6)*, the extensive 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 Fellow Educators,

I applaud your passion and enthusiasm for science, a vital component to your already crowded curriculum. Like you, I consider science education to be essential! If you were to challenge your students to find one thing in your classroom unrelated to science, past or present, they would likely be confounded. Science is not only at the heart of our students' well-being but is also a significant part of human culture through the development of language, logic, and problem-solving.

Today's K-6 teachers are on the front lines of an educational movement that is absolutely critical to our health, economy, and security. Schools are expected to take considerable steps toward preparing a workforce that will promote prosperity and innovation. What can we as educators do to:

- Encourage students to protect the natural world and lead healthy lives?
- Prepare them to make logical, evidence-based decisions?
- Help them consider science as a career?
- Recognize science fact when they encounter it?
- Find the time and resources necessary to research and integrate appropriate and engaging science lessons?
- Implement strategies and standards to have the greatest impact on science learning?

I will provide dozens of tools and ideas to help you address these important questions! During my strategy-packed seminar, I will share effective, research-based instructional ideas that are certain to energize and motivate your students. I will also demonstrate practical science teaching strategies, that will make you less of an “instructor” and more of a classroom “facilitator.”

My goal during this interactive and dynamic seminar is to help you bolster your science teaching without having to reinvent the wheel. I'm hoping that you will leave feeling empowered to increase your students' science learning.

Sincerely,

A handwritten signature in cursive script that reads "Marge Porter".

Marge Porter

P.S. You will leave this seminar inspired, enthusiastic and ready to infuse **innovative, cutting-edge strategies** into your current science instruction!

"During my strategy-packed seminar, I will share effective, research-based instructional ideas that are certain to energize and motivate your students."

What Your Colleagues Say About Marge Porter

*"This was a great professional development! **I am so grateful for the resources** and will be able to use so much of what I learned today in my classroom!"* **Cody Smith, Teacher**

*"Very valuable content! **The accompanying resource handbook is robust** and it will expand my understanding of and usefulness of those compressed topics."*
Joe Blanton, Elementary Science Specialist

*"**So many resources** – THANK YOU!"* **Carrie Stintsman, 6th Grade Teacher**

*"Great resources – **I have enough to keep me researching for months!** Can't wait to dive in."*
June Beck, 5th Grade Science/SS Teacher

*"Marge Porter was very focused and provided a **plethora of resources**. I am looking forward to unpacking them."*
Conor Klaus, 5-6 Science Teacher



About BER Seminars

Outstanding Instructors

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

Extensive Resource Handbook

You'll receive an extensive digital Resource Handbook full of practical strategies and resources. (For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.)

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 44 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



'An amazing amount of resources!'

VICKI HORYZA,
INSTRUCTIONAL FACILITATOR

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 Resource Handbook

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

- Resources to increase student engagement and learning of science
- Numerous free resources, lessons, applications and templates that incorporate 21st Century Learning Competencies: Critical Thinking, Collaboration, Communication, and Creativity
- Research-based tools and strategies that will strengthen science teaching and learning

For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.

Share Ideas with Other Educators

This seminar provides a wonderful opportunity for participants to share ideas with other educators interested in cutting edge tools and strategies for teaching science in grades K-6.

Meet Inservice Requirements / Earn State CEUs

Participants of In-Person and 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



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.

Can't Attend?

Other Professional Development Options:



Recorded Version of the Seminar

A video recorded version of this seminar will be 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 Courses

Two related On Demand Video-Based Online Learning courses, *Best Strategies to Help Your Students Achieve the NEXT GENERATION SCIENCE STANDARDS*, for Grades K-8, and *Practical Strategies for Using Project-Based Learning to Enhance Your STEM Instruction*, for Grades K-8, are available for immediate registration.

To enroll, visit www.ber.org/online

For purchases in WA State on Recorded Seminars and On-Demand courses, please add 10.1% sales tax to the total amount.

Cutting Edge Tools and Strategies for Teaching Science (Grades K-6)

Registration (CEP2F1)

- 1. **Albany, NY** – December 16, 2021
- 2. **Anaheim** (Garden Grove), **CA** – February 8, 2022
- 3. **Long Island** (Plainview), **NY** – December 13, 2021
- 4. **Manchester, NH** – December 15, 2021
- 5. **Ontario, CA** – February 7, 2022
- 6. **Portland, OR** – February 9, 2022
- 7. **Portland** (South Portland), **ME** – December 14, 2021
- 8. **Seattle** (Bellevue), **WA** – February 11, 2022
- 9. **Spokane, WA** – February 10, 2022
- 10. **LIVE ONLINE:** December 10, 2021 (Start time: 9 AM Eastern)
— or —
- 11. **I'd like to order the recorded version of this seminar**
For purchases in WA State on Recorded Seminars, please add 10.1% sales tax to the total amount.

FIRST NAME	M.I.	LAST NAME
<hr/>		
POSITION, SUBJECT TAUGHT	GRADE LEVEL	
<hr/>		
SEMINAR LOCATION NUMBER: _____ (Please see list above)		

List additional registrants on a copy of this form

SCHOOL NAME	
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SCHOOL MAILING ADDRESS	
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CITY & STATE	ZIP CODE
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SCHOOL PHONE NUMBER	HOME PHONE NUMBER
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Registration confirmations and login details are sent via e-mail

E-MAIL ADDRESS (REQUIRED FOR EACH REGISTRANT)	
<hr/>	
HOME MAILING ADDRESS	
<hr/>	
CITY & STATE	ZIP CODE
<hr/>	<hr/>

IMPORTANT – PRIORITY ID CODE: ECEP2F1

METHOD OF PAYMENT – Team Discount Available

The registration fee is \$279 per person, for teams of three or more registering at the same time, the fee is \$259 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

FIVE EASY WAYS TO REGISTER:

-  **REGISTER ONLINE** at: www.ber.org
-  **EMAIL** this form to: register@ber.org
-  **PHONE** toll-free: **1-800-735-3503**
(Weekdays 5:30 am - 5:30 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 **In-Person** Seminars are scheduled 8:30 a.m. – 3:15 p.m.
Check-in is 8:00 a.m. – 8:30 a.m.
- All **Live Online** Seminars are scheduled 9:00 a.m. – 3:30 p.m. 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 \$279 per person, \$259 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 In-Person Seminars, Live Online Seminars or Recorded Seminars.

For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.

Meeting Sites and Hotel Accommodations

Seminars will be held at the following sites:

- Albany: Hilton Garden Inn Medical Center, (518) 396-3500
- Anaheim: Marriott Suites – Garden Grove (714) 750-1000
- Long Island: Holiday Inn – Plainview, (516) 349-7400
- Manchester: Courtyard by Marriott, (603) 641-4900
- Ontario: Azure Hotel & Suites, (909) 284-8670
- Portland, OR: Hilton Garden Inn – Airport, (503) 255-8600
- Portland, ME: Home2 Suites – Airport, (207) 517-3636
- Seattle: Residence Inn – Bellevue, (425) 637-8500
- Spokane: Hilton Garden Inn, (509) 244-5866

If needed, please make your own hotel reservations by calling the appropriate hotel listed above.

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.

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An outstanding one-day In-Person Seminar
or Live Online Seminar

Includes an extensive Resource Handbook

Can't Attend? A Recorded Version is available
to use online at your convenience



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Cutting Edge SCIENCE Tools and Strategies (Grades K-6)

CEP2F1

Cutting Edge Tools and Strategies for Teaching Science (Grades K-6)



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In-Person Seminar,
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