

Practical Strategies for Enhancing STEM Learning in Your Classroom (Grades K-6)



A Unique One-Day Seminar Presented by

Marjorie Porter

Outstanding Teacher and National Presenter

Specifically Designed for K-6 Classroom Teachers, Science, Technology,
and Mathematics Specialists, Instructional Coaches, and Administrators

Proven strategies for enhancing instruction in science, technology, engineering,
and mathematics in grades K-6

Timesaving links, tips and tools for cultivating a student-centered, inquiry-focused
STEM classroom

Practical and useful techniques for “STEMifying” existing lessons

Receive an extensive resource handbook filled with dozens of ready-to-use ideas
and instructional tools to make your classroom “STEM-savvy”

Missouri

Kansas City – October 31
(Independence)

Nebraska

Omaha – November 1

Ohio

Cleveland – October 30
(Independence)

Columbus – October 29

South Dakota

Sioux Falls – November 2

CEUs and Graduate Credits Available
See page 6 for details

*Great resources!
Great strategies! Many
practical ideas for the
classroom that I can't wait
to share with my students!*

– EILEEN MONEA, TEACHER

Ten Key Benefits of Attending

'Awesome seminar!
This makes math
and science more
engaging and
student-centered.
I look forward to
creating a new
STEM experience in
my own classroom.'

– KYLEE WILSON, TEACHER



Who Should Attend

K-6 Classroom Teachers,
Science, Technology, and
Mathematics Specialists,
Instructional Coaches,
and Administrators

- 1. Useful and Effective Strategies for Enhancing STEM Instruction in Your K-6 Classroom**
Acquire practical and doable strategies for enhancing your existing units and lessons with STEM topics ... Discover numerous ways to actively engage your students in a range of hands-on activities that incorporate all four STEM disciplines
- 2. “STEM-Up” Your Teaching Without Recreating What You Already Do**
Learn mechanisms for using STEM-focused instructional techniques to encourage a learner-centered and activity-based classroom that will result in greater retention of knowledge and skills
- 3. Engage Your Students in Real-World Problem Solving Involving STEM Skills and Concepts**
Discover creative and meaningful ways to implement project based learning (PBL) ... Help your students solve real-world problems and improve on existing technologies
- 4. Involve Your Students in Authentic Inquiry – Key in STEM Competencies**
Encourage your students to be active and innovative participants in inquiry-based classroom learning ... Exemplary strategies to help students develop and refine high-quality questions and support scientific claims with evidence
- 5. Tap into Highly Effective and Engaging Technology Tools**
Excellent websites, apps and tools to help your students become active and engaged in all four STEM disciplines ... Valuable resources for strengthening student awareness of and interest in STEM careers
- 6. Discover Key Components of Using “Phenomena” in STEM Learning, Outlined in the Next Generation Science Standards (NGSS)**
Develop tools for incorporating modeling as a mechanism for “3 Dimensional Learning” ... Practice techniques for facilitating the construction of STEM knowledge using the NGSS practices
- 7. Integrate Specific Design Protocols to Create Outstanding STEM Lessons**
Learn how the engineering design cycle can enhance existing STEM units ... Incorporate classroom-proven strategies to help students embrace the design process as they work and think in collaborative groups
- 8. Learn Key Strategies for Strengthening STEM Learning**
Deepen and enhance student understanding of core science concepts through team problem-solving strategies ... Help your students learn how to build upon their existing knowledge by immersing them in exploration ... Energize all learners through active collaboration, teamwork and discovery
- 9. Utilize Timesaving Tips for Assessing STEM Achievement**
Discover how “progressive” assessments will allow you to monitor student learning throughout a project or unit ... Get access to rubrics and other evaluation tools and templates
- 10. Receive an Extensive STEM Resource Handbook**
Each participant will receive the extensive resource handbook designed specifically for this seminar that is filled with dozens of ideas and strategies for incorporating STEM lessons into grades K-6 classrooms

Outstanding Strategies You Can Use Immediately

What You Will Learn ...

- Effective approaches to **successfully integrate STEM into your existing K-6 units and lessons**
- **Practical tips and tools** for using technology to create highly motivating STEM learning experiences
- **Timesaving resources** for building progressive monitoring assessments that measure deeper learning
- Numerous project suggestions that **encourage creativity and invention in your classroom**, without the need to purchase costly equipment or materials
- **Proven methods** for immersing students in exciting STEM design scenarios that will energize and motivate them
- A multitude of **useful and valuable classroom-ready ideas to encourage science inquiry** through challenging, team-based learning experiences
- Outstanding, step-by-step examples of how to **develop authentic, research-based instructional strategies** that model real-world STEM skills
- **Useful applications and web resources** that will motivate and inspire your students in science, technology, engineering, and math
- Detailed guidelines for **integrating open-ended, problem-solving activities** that embrace the NGSS Science and Engineering Practices
- Strategies to **foster and maintain your students' interest** in STEM careers



*'This was a fabulous learning experience!
I can't wait to implement these strategies in my own classroom!'*

– DAWN SIFUENTES, 3RD GRADE TEACHER

Practical Ideas and Strategies

In this highly engaging, interactive seminar, you will learn innovative strategies to strengthen your STEM instruction. STEM is the integration of science, technology, engineering, and mathematics to change the way students think, approach ideas, solve problems, research, plan, and execute a design process. **Marjorie Porter**, outstanding presenter and STEM educator, will give you a wealth of innovative ideas for incorporating STEM instruction into your K-6 classroom. You will discover how to integrate the content areas, use teamwork, inquiry, discussion, tap into technology, and seek real-world applications to fully engage your students. In addition, you will gain tips to help students learn to analyze their work, utilize their strengths, step out of their comfort zones, and take risks for greater achievement. Dozens of practical resources, free to low-cost, will be shared along with project ideas, multi-dimensional lessons and activities, and assessment strategies where students can creatively show what they know. Whether you are a beginning or veteran STEM educator, you will leave this dynamic seminar with new insights, practical strategies and an extensive resource handbook filled with practical ideas for enhancing STEM learning in your K-6 classroom. Expand your world of STEM instruction and watch your students' motivation and confidence soar!



A Message From Your Seminar Leader, Marjorie Porter



Uniquely Qualified Instructor

MARJORIE PORTER is an exemplary STEM teacher, presenter and education consultant on highly effective ways to incorporate STEM instruction into K-6 classrooms. She is a recent graduate of Connecticut's NGSX Leadership Development Academy and is committed to instructional excellence and the creative use of technology to support student learning. Marjorie is passionate about the need to involve young children in autonomous science investigation, knowing it is essential to a student's overall development and eventual career choice. She also develops lessons and programs for regional workshops, schools, nature centers, and extracurricular STEM programs. She is the author of *Practical Strategies for Enhancing STEM Learning in Your Classroom (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 easily enhance STEM learning in your grades K-6 classrooms!***

Dear Colleague:

I applaud your passion and enthusiasm for incorporating STEM into what is, without doubt, an already overcrowded curriculum! Like you, I consider the science and engineering practices such as modeling, investigating, analyzing, and supporting claims with evidence to be at the heart of STEM learning. Today's K-6 teachers are on the front lines of an educational movement that is absolutely critical to health, economy and security in the U.S.

Schools are expected to take considerable steps toward preparing a STEM workforce that will promote prosperity and innovation. How can you encourage your students to pursue STEM careers? Where will you find the time and resources necessary to research and integrate STEM-based strategies? In what ways can you implement STEM tactics to have the greatest impact on learning, without adding more to your plate? I will provide dozens of strategies to help you address these questions!

During this strategy-packed seminar, I will share effective instructional ideas that are certain to energize and motivate your students by integrating science, technology, engineering, and math. I will also demonstrate ways to employ practical STEM teaching tools, such as "talk moves," "project based learning" and "engineering design" that will make you less of an "instructor" and more of a classroom "facilitator."

This fast-paced seminar will help you to "STEM-up" your teaching without having to reinvent the wheel. You will leave feeling empowered to embrace STEM in your classroom!

Sincerely,

Marjorie Porter

P.S. You will leave this seminar **inspired and enthused with ready-to-infuse, innovative STEM techniques** for your current instructional approaches, along with a resource handbook to help you when you return to your classroom!

"I will share effective instructional ideas that are certain to energize and motivate your students by integrating science, technology, engineering, and math."

What Your Colleagues Say About Marjorie Porter

*"This seminar gave helpful ideas as well as **many demonstrations of how to integrate STEM into the elementary classroom.** Thank you!"*

– Kayla Locklear, Teacher

*"Marjorie gave **tons of practical strategies and resources** to apply in my STEM activities!"*

– Samantha Wilson, 3rd Grade Teacher

*"**I thoroughly enjoyed this seminar!** Marge provided a wealth of resources and ideas. I look forward to implementing them in my own classroom."*

– Christopher Mathews, 4th Grade Teacher

*"**Thank you for all the wonderful information!** I am excited to explore all the websites, and to utilize the resources!"*

– Anna Mary Vogy, K-6 Science/Geometry Teacher



*"**Very informative!** Can't wait to take the ideas back to my classroom!"*

– Ashley Manovich, Teacher

*"I have **so many great resources and easy-to-implement strategies.** I loved the hands-on activities!"*

– Julie Leitch, 5th Grade Teacher

*"**Marjorie gave so much useful information** without overwhelming us. She had a great attitude and knew how to invigorate her audience!"*

– Karen Smilowski, STEM Coordinator

*"Today was fast-paced and I have a new love for STEM! **I loved the interaction and access to the resources!**"*

– Amy Byrd, 3rd Grade Teacher

Special Benefits of Attending



Online Learning

BER offers educators a wide range of online courses that are affordable, fun, fast, and convenient. BER is now offering On Demand Video-Based courses as well as Scheduled Instructor-Led courses. You may earn optional graduate-level credits for most courses. See the catalog of available courses at www.ber.org/onlinelearning

On-Site Training

Most BER 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 Resource Handbook

Each participant will receive an extensive resource handbook specifically designed for this seminar. The handbook includes:

- Specific guidelines to STEM-up your existing lessons with the latest technology tools
- Classroom-ready ideas for strengthening your students' design, problem-solving and invention skills
- Dozens of online curricular resources that will enhance your existing STEM repertoire
- Strategy-focused demonstrations of how science, technology, engineering, and math are woven together to increase student learning
- Exciting and easy-to-follow strategies for incorporating STEM activities that will complement national science and engineering standards

Meet and Share

This seminar provides a wonderful opportunity for participants to meet and share ideas with other educators interested in strategies to enhance their STEM programs.

Consultation Available

Marjorie Porter will be available at the seminar for consultation regarding your questions and the unique needs of your own STEM program.

Meet Inservice Requirements / Earn State CEUs

Participants will receive a certificate of participation that may be used to verify continuing education hours.

CEUs Available:

Missouri

- MO Inservice Credit Available with Prior District Approval
- KS Inservice Credit Available with Prior District Approval

Nebraska

- NE Inservice Credit Available with Prior District Approval

Ohio

- OH CEUs Available with District Approval

South Dakota

- SD Clock Hours Verification Available

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.

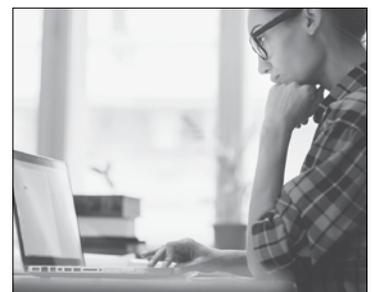
Can't Attend?

Other Professional Development Options:



Related Online Course

A related On Demand Video-Based Online Learning course, *Practical Strategies for Using Project-Based Learning to Enhance Your STEM Instruction*, for Grades K-8, is available for immediate registration. To enroll, visit www.ber.org/onlinelearning



Practical Strategies for Enhancing STEM Learning in Your Classroom (Grades K-6)

Registration (CSY9F1)

1. **Cleveland** (Independence), **OH** – October 30, 2018
2. **Columbus, OH** – October 29, 2018
3. **Kansas City** (Independence), **MO** – October 31, 2018
4. **Omaha, NE** – November 1, 2018
5. **Sioux Falls, SD** – November 2, 2018

FIRST NAME	M.I.	LAST NAME
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POSITION, SUBJECT TAUGHT	GRADE LEVEL	
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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 are sent via e-mail.
If you would like a confirmation, please provide your e-mail address.**

E-MAIL ADDRESS	
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HOME MAILING ADDRESS	
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CITY & STATE	ZIP CODE
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IMPORTANT: PRIORITY ID CODE: ECSY9F1

METHOD OF PAYMENT – Team Discount Available

The registration fee is \$259 per person, for teams of three or more registering at the same time, the fee is \$239 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.)
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- 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 Signature (required for credit card purchases)

FOUR EASY WAYS TO REGISTER:

 **REGISTER ONLINE** at: www.ber.org

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

 **PHONE toll-free: 1-800-735-3503** (Weekdays 6 am - 6 pm Pacific Time)

 **MAIL this form to: Bureau of Education & Research**
915 118th Avenue SE * PO Box 96068
Bellevue, WA 98009-9668

Program Hours

All seminars are scheduled 8:30 a.m. - 3:15 p.m.
Check-in 8:00 a.m. - 8:30 a.m.

Fee

The registration fee is \$259 per person, \$239 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.** No cash please. Fee includes seminar registration, morning coffee and tea, a personalized certificate of participation, and an extensive resource handbook.

Meeting Sites and Hotel Accommodations

Seminars will be held at the following sites:

- Cleveland: Crowne Plaza – Independence, (216) 524-0700
- Columbus: Crowne Plaza North, (614) 885-1885
- Kansas City: Hilton Garden Inn – Independence, (816) 350-3000
- Omaha: Hilton Garden Inn West, (402) 289-9696
- Sioux Falls: Homewood Suites, (605) 338-8585

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 conference. Late cancellations 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. The Bureau is North America's leading presenter of seminar training for professional educators. Programs are based on sound research, are highly practical in content and consistently receive excellent evaluations.



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Practical Strategies for Enhancing STEM Learning in Your Classroom (Grades K-6)



The most up-to-date strategies and best practices
to strengthen your **STEM** instruction

A Unique One-Day Seminar

Coming to a Location Near You

Strengthen STEM Learning in Your Classroom (Grades K-6)

CSY9F1



Bureau of Education & Research

Practical Strategies for Enhancing STEM Learning in Your Classroom (Grades K-6)



A Unique One-Day Seminar Coming to a Location Near You

Presented by

Marjorie Porter

Outstanding Teacher and National Presenter

Proven strategies for enhancing instruction in science, technology, engineering, and mathematics in grades K-6

A wealth of **engaging lesson ideas and resources** that truly integrate all four STEM disciplines

Timesaving links, tips and tools for cultivating a student-centered, inquiry-focused STEM classroom

Practical and useful techniques for "STEMifying" existing lessons