Practical Strategies to Enhance STEM Instruction in Your Science, Technology, Engineering, and Math Classes (Grades 6-12)

NEW Seminar Presented by MARJORIE PORTER
Outstanding Science and STEM Educator and National Presenter

Specifically Designed for Educators Who Teach Science, Technology, Engineering, and Mathematics in Grades 6-12: Classroom Teachers, Science and Math Specialists, Instructional Coaches, and Administrators

- Successfully enhance STEM instruction in science, technology, engineering, and mathematics in grades 6-12
- Save valuable time by integrating STEM into your existing lessons rather than recreating your current units of instruction
- Innovative and engaging technology tools – powerful websites, apps and tools to help your students become active and engaged students in all four STEM disciplines
- Dozens of tips, strategies, tools, and resources to help you increase STEM learning outcomes for your secondary students
- Receive an extensive resource handbook filled with a wealth of resources, strategies and ready-to-use tips to make STEM instruction doable in your classroom

2016 SCHEDULE

Connecticut
Hartford (Bristol) – October 26
CT Five (5) Contact Hours Available with Prior District Approval
For MA, Contact Hours Verification Available
RI Five (5) Contact Hours Available

Maine
Portland – October 24
5 Contact Hours Available with Prior Approval from your Local Certification Support System

New York
Long Island – October 27 (Ronkonkoma)
NY CPE Hours Available with Prior District Approval
NJ Professional Development Hours Available with Prior District Approval

Ohio
Cleveland – October 28 (Middleburg Heights)
OH CEUs Available with District Approval

Rhode Island
Providence (Warwick) – October 25
RI Five (5) Contact Hours Available
CT Five (5) Contact Hours Available with Prior District Approval
For MA, Contact Hours Verification Available

“Marge is a fantastic presenter! Her energy, enthusiasm and knowledge on STEM made this seminar a valuable experience.”
– STACY LYVER, MIDDLE SCHOOL SCIENCE TEACHER

You are welcome to bring a fully charged mobile device. It is not, however, a requirement to attend this seminar.
Practical Strategies

This exciting, interactive seminar is packed with a wide range of ideas for enriching your lessons and units with STEM topics. Throughout the day, you will receive classroom-ready, standards-based strategies for engaging learners in projects that incorporate exploration and design, as well as a multitude of online resources for STEM-related lessons, materials, tools, and ideas for implementation which include developing connections with professionals in STEM careers.

You will also learn how you can develop a mindset of continual improvement and redesign among your students as they integrate science, technology, engineering, and math concepts.

You won’t want to miss this full day of discovery during which you will learn dozens of practical, cutting-edge tools for implementing essential STEM strategies into your existing curricular units. You will leave with a wealth of new ideas for strengthening your grades 6-12 students’ problem-solving skills in ways that will help them become more competitive in the 21st century workforce!

Ten Key Benefits of Attending

1. **Practical Strategies for Enhancing STEM Instruction in Your Secondary Classroom**
   Learn 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. **Increase Student Achievement and Engagement**
   Learn useful and engaging strategies to empower your students by using questioning techniques that probe and get students thinking more deeply … Increase student confidence and their ability to think in new and different ways about your curriculum.

3. **Integrate Specific Design Protocols to Create Outstanding STEM Lessons**
   Learn how to use “Reverse Engineering” and “Making” to develop exceptional STEM lessons … Classroom-proven strategies to help students embrace the design process as they work and think in collaborative groups.

4. **“STEM-Up” Your Teaching without Recreating What You Already Do**
   You don’t need to recreate what already works in your classroom to effectively integrate STEM strategies … Learn how to use STEM-focused instructional techniques that encourage a learner-centered and activity-based classroom that will result in greater retention of knowledge and skills.

5. **Engage Your Students in Real-World Problem Solving Involving STEM Skills and Concepts**
   Learn innovative ways to engage your students in meaningful project-based learning (PBL) … Discover ways to help your students solve real-world problems and improve on existing technologies.

6. **Employ Your Students in Student-Centered Inquiry – Key in STEM Competencies**
   Encourage your students to be active and innovative participants in inquiry-based classroom learning … Classroom-proven ways to assist them in developing and refining high-quality questions and supporting scientific claims with evidence.

7. **Use Virtual Technology Tools to Connect with STEM Professionals**
   Gain highly useful resources for connecting your classroom with science, technology, engineering, and math professionals … Learn how to build virtual partnerships with those working in STEM-focused occupations as a way for strengthening students’ awareness of and interest in STEM careers.

8. **Tap Into Highly Effective Technology Tools to Support STEM Instruction**
   Practical strategies for strengthening STEM process and content through the use of mobile technologies and digital tools … Numerous, effective applications and web resources to motivate and inspire all your students.

9. **Learn Key Strategies for Strengthening STEM Learning**
   Deepen and enhance student understanding of core science concepts through team problem-solving strategies … Help students learn how to build upon their existing knowledge by immersing them in exploration … Energize all learners through active collaboration, teamwork and discovery.

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 6-12.
Outstanding Strategies You Can Use Immediately

- How to **successfully integrate STEM lessons** into your grades 6-12 instruction

- **Practical tips and tools for using technology** to create highly motivating STEM learning experiences

- **Discover practical strategies** to integrate STEM into your existing units and lessons

- **Proven methods for immersing students in stimulating 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 active and exploratory 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 incorporate engineering skills

- **Practical strategies for strengthening STEM process and content** through the use of mobile technologies and digital tools

- Strategies to **foster and maintain career-focused partnerships**

- **Unique ideas for developing interactive lessons** based on existing STEM models that will enhance your students’ research and collaboration skills

- Ideas for **integrating highly effective, authentic, real-world problem-based learning experiences** into your existing curricular units

- **Exceptional cutting-edge resources** to embrace the design process as a teaching and learning tool

- **A wealth of ideas and ready-to-use tools for enhancing STEM instruction** in your classroom in ways that will make your instruction come alive!
Dear Colleague:

Without question, a well-prepared, innovative science, technology, engineering, and mathematics workforce is crucial to our nation’s health and economy. You likely have passion and enthusiasm for teaching STEM, but lack the time and resources necessary to extensively research STEM-based strategies. Integrating STEM need not be equated with reinventing everything that is already being done within the classroom! Without adding more to your plate, you can focus on implementing the crucial STEM skills that have the greatest impact on learning.

During this one-day, strategy-packed seminar, I will share powerful, cutting-edge instructional techniques that will excite and inspire you and your students! I will demonstrate practical, classroom-ready ideas for incorporating STEM as a way to enhance your students’ learning and increase achievement. You will learn trusted, proven strategies for integrating STEM in a way that will strengthen what you already do in the classroom. These are ideas that work and will build on your existing successes!

I invite you to join me for this valuable and exciting day during which I will outline multiple strategies and tools for actively engaging your students in a diverse range of meaningful, hands-on STEM activities that will help them become “future ready.” You will leave with dozens of technology ideas, apps, websites, and strategies that encourage a more learner-centered and activity-based classroom style that will result in greater overall academic achievement. You will discover that by identifying specific skills that students should develop and select sound instructional tools and techniques to build those skills, you can “STEM-up” your teaching without feeling overwhelmed.

I am looking forward to sharing detailed and effective techniques to help you integrate STEM into your lessons and projects. I want you to leave feeling empowered, not overwhelmed, to implement STEM in your grades 6-12 classrooms.

Sincerely,

Marjorie Porter

P.S. You will leave this seminar inspired, enthusiastic and ready to infuse innovative STEM techniques into your current instructional approaches, along with a resource handbook to help you when you return to your classroom!
Uniquely Qualified Instructor

Marjorie Porter is an exemplary science teacher and education consultant, committed to instructional excellence and the creative use of technology to enhance and support student learning. Marjorie has presented outstanding professional development workshops, both regionally and nationally, on a variety of STEM topics. She is the author of Practical Strategies to Enhance STEM Instruction in Your Science, Technology, Engineering, and Math Classes (Grades 6-12), the extensive resource handbook you will receive at the seminar.

Marjorie is an energetic, innovative and highly qualified secondary teacher who has had a positive influence on thousands of students and instructors. Her colleagues respect her for her expertise, effective teaching strategies and creative approach to incorporating STEM in her instruction.

Participants in Marjorie’s seminar will discover an extensive collection of ideas and practical strategies for incorporating STEM into their existing curricula. Educators who attend her seminar will leave with detailed guidelines about how to involve their students in real-world, collaborative problem solving. Her lively seminar will introduce you to novel ways to leverage the engineering design process as a mechanism for incorporating science, math and technology into the classroom. She will clearly outline a variety of approaches and numerous strategies to inspire creativity and address real-world problems, and will showcase activities that engage students in the excitement of science, technology, engineering, and math.

What Your Colleagues Say About Marjorie Porter

“Marjorie has great ideas and strategies! I received many lessons, links and resources that I can incorporate into my STEM instruction. Thank you!”
— Raj Kalsi, Science Teacher

“This seminar is great! Marge offered so many useful ideas and strategies. Thank you!”
— Julie Farhm, Physics Teacher

“Very engaging! Great energy! Marjorie shared a great mix of resources and activities.”
— Jason Estes, 8th Grade Science Teacher

“Marjorie is very knowledgeable and informative. I feel more confident in being able to integrate new ideas to enhance my students’ learning.”
— Lisa Pisaui, Science Teacher

“This is the third time I’ve attended a seminar presented by Marge. I always go home with easy-to-implement lessons. Thank you!”
— Sherry Miller, Earth Science Teacher

“Great resources and strategies! I’m walking away with so many new tools to share with my colleagues!”
— Joel Totten, Science Department Liaison

“Tons of great information! I finally have a clear idea of what STEM lessons are! Thank you!”
— Jessie Botello, Science Teacher

“This is the first seminar in my twenty years of teaching where I spent my entire lunch break reading the seminar handbook. I am SO excited to start ‘Stemifying’ my science instruction.”
— Jill Witham, Middle School Science Teacher

“Marge is amazing at explaining and sharing an immense amount of information that is clear and easy to use immediately in the classroom. Thank you!”
— Kathryn Rosenfield, Chemistry Teacher
Special Benefits of Attending

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

- Specific guidelines for “stemifying” 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 and strengthen 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 science, technology, engineering, and math instruction. Bring your favorite STEM lesson or unit to share!

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

Semester Credit Option
One graduate level elective credit is available with an additional fee and completion of a follow-up practicum project. Details for direct enrollment with Brandman University, part of the Chapman University system, will be available at the seminar.

Meet Inservice Requirements
At the end of the program, each attendee will receive a certificate of participation that may be used to verify hours of participation in meeting continuing education requirements.

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.

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 also may earn optional graduate-level credits for most courses. See the catalog of available courses at www.ber.org/onlinelearning
Who Should Attend
Grades 6-12 Classroom Teachers, Science and Math Specialists, Instructional Coaches, and Administrators.

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 $245 per person, $225 per person for groups of five 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.

Cancellations/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 can exchange for a certificate to attend another seminar or will be refunded less a $15 service fee. Substitutions may be made anytime without charge.

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.

Meeting Sites and Hotel Accommodations
Seminars will be held at the following sites:
- Cleveland: Crowne Plaza – Airport, (440) 243-4040
- Hartford: DoubleTree – Bristol, (860) 589-7766
- Long Island: Courtyard Marriott – MacArthur Airport, (631) 612-5000
- Portland: Holiday Inn By The Bay, (207) 775-2311
- Providence: Hilton Garden Inn – Airport, (401) 734-9600
If needed, please make your own hotel reservations by calling the appropriate hotel listed above.

Possible Funding Sources
Elementary and Secondary Education Act funds, including Title I School Improvement Grants; Title VI; Title VII; Restructuring grants; At-Risk grants, Bilingual/ESL and Migrant Education funds; IDEA; Demonstration School funds; Parent Teacher Organizations; and Inservice Training funds.

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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Registration (CSP7F1)

☐ 1. Cleveland (Middleburg Heights), OH – October 28, 2016
☐ 2. Hartford (Bristol), CT – October 26, 2016
☐ 3. Long Island (Ronkonkoma), NY – October 27, 2016
☐ 4. Portland, ME – October 24, 2016
☐ 5. Providence (Warwick), RI – October 25, 2016

FIRST NAME M.I. LAST NAME

POSITION, SUBJECT TAUGHT GRADE LEVEL

SEMINAR LOCATION 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 are sent via e-mail. If you would like a confirmation, please provide your e-mail address.

E-MAIL ADDRESS

HOME MAILING ADDRESS

CITY & STATE ZIP CODE

IMPORTANT: PRIORITY ID CODE  ECSP7F1

METHOD OF PAYMENT

The registration fee is $245 per person. For groups of five or more registering at the same time, the fee is $225 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

Signature (required for credit card purchases)

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