

# Practical Strategies to Enhance STEM Learning in Your Classroom (Grades K-6)



A Unique One-Day Seminar Presented by

**Jeff Stenroos**

Outstanding STEM Teacher and National Presenter

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

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The **key components to successfully enhance STEM learning** across all content areas in your grades K-6 classrooms

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**Innovative strategies** to integrate meaningful and important math and science content with student-centered projects

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**Learn dozens of strategies, tips and tools** to ensure positive STEM learning outcomes for your elementary students

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Discover **innovative, motivating ways to focus on STEM-related skills** such as problem solving, working collaboratively, research, and planning and executing a design process

## **New Jersey**

**Cherry Hill – December 17**  
(Voorhees)

**Newark – December 18**  
(West Orange)

## **New York**

**Buffalo – November 20**  
(Cheektowaga)

**Long Island – December 19**  
(Plainview)

**Rochester – November 19**  
(West Henrietta)

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CEUs and Graduate Credits Available  
See page 6 for details

# Ten Key Benefits of Attending

*"Jeff shared great ideas to keep students engaged and thinking!"*

– NITA COLLINS, TEACHER



## Who Should Attend

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

### 1. Discover the Key Components to Strengthen Your STEM Instruction

Learn from a current, experienced STEM elementary teacher and national presenter about the essential components of outstanding STEM learning environments in grades K-6 ... Practical strategies you can use in your own STEM instruction

### 2. Energize Your STEM Instruction

Captivating, low- to no-cost demonstrations, lessons and projects that will get your students excited about learning and doing math and science ... Learn how to guide questioning and discussions to tap into the natural inquisitive nature of your students

### 3. Engage Your Students in Student-Centered Inquiry

Discover how to shift your current lessons to take students from direct science instruction to student-directed learning ... Help students take their own ideas and guide them to develop meaningful problem-solving projects

### 4. Build a Classroom Environment of Engineering Problem Solving

Techniques on how to create meaningful projects that promote idea sharing, inquiry, observation, experimentation, discussion, debating, and creativity ... Use the engineering process to highlight collaboration, failure, success, and opportunities to try new things while teaching content skills in science and math

### 5. Develop and Discover Assessment Strategies to Measure STEM Learning

How to find, use and develop assessments that focus on integrated problem solving and show the components of math, science and the arts ... Ways to adapt current projects and assessments to bridge content areas and include the arts as a means for presenting learning

### 6. Increase Student Achievement Through STEM Instruction

Learn innovative ways to empower your students by using questioning techniques that probe, engage and encourage them to think more deeply ... See how you can do this in ways that increase student confidence and learning in all content areas

### 7. Using Technology to Extend Learning Beyond the Classroom Walls

Specific techniques and resources to turn the learning over to your students and reinforce content as well as inquiry ... Help your students become more independent learners beyond the school day and take greater responsibility for their learning ... Ideas for flipped and blended learning

### 8. Discover STEM/STEAM Ideas and Projects You Can Use Immediately

Websites and apps open up a world of resources for student learning, STEM activities and projects along with ideas for integrating art into your science and math instruction ... Discover low- to no-cost resources to use or spark your own ideas and classroom projects

### 9. Engage Students in the Engineering Design Process

Your students can be creative and innovative ... Learn how to grow and guide your students' natural curiosity into a design process that teaches them to create their own questions, testing methods and presentation of the results with guided, but open-ended learning opportunities

### 10. Receive an Extensive STEM Resource Handbook

You will receive an extensive resource handbook written just for this seminar and filled with activities, strategies and ideas that can easily be adapted into any grades K-6 classroom

# Outstanding Strategies You Can Use Immediately

## What You Will Learn ...

- Practical strategies to **strengthen your STEM instruction for all students** in grades K-6
- **Practical tips and tools for using technology** to create highly motivating STEM experiences for your students
- Practical and proven strategies to **increase student engagement** in learning science, technology, engineering, and mathematics
- Learn the **power of teamwork and open-ended student work**
- **Transform your current science activities** to a STEM level with a shift in your teaching and planning
- Learn **instructional practices and routines** to take your students from “What am I supposed to get?” to “This is what I discovered!”
- Creative ideas to **add visuals, performance, music, and technology** to science and math
- **Create an atmosphere of inquiry** through questioning, discussion, experimentation, and reflection
- Routines and practices to **remove limitations and replace them with wonder, critique and innovation**
- Ways to **explore opportunities** where art naturally fits the STEM arena
- **Discover multi-dimensional lessons, activities and assessments** that meet the *Next Generation Science Standards*
- Ways to **bring content learning to life** through problem-solving activities that promote creativity and questioning



*"Jeff is very engaging! I will use many of his strategies and hands-on activities in my classroom."*

– SAMANTHA COLLIER, TEACHER

## Practical Ideas and Strategies

In this highly engaging, interactive seminar, you will learn innovative strategies to enhance and strengthen your STEM instruction. This seminar has been designed by outstanding STEM instructor, **Jeff Stenroos**, to give you a wealth of innovative ideas for incorporating STEM instruction into your K-6 classrooms. 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.

Whether you are a beginner 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 Seminar Leader, Jeff Stenroos



## Uniquely Qualified Instructor

**JEFF STENROOS** is an outstanding grades K-6 educator, national presenter and STEM teacher who is well known for fun, highly practical and engaging seminars chock-full of ideas that teachers can use immediately. Jeff has taught for numerous years and has been involved in training teachers in STEM strategies. In addition, Jeff is the author of *Practical Strategies to Enhance STEM Learning in Your Classroom (Grades K-6)*, the extensive resource handbook each participant will receive at the seminar. His classrooms are energetic, high-paced, dynamic, interactive, student-centered learning environments where learning is a process, not a product.

***Spending a day with Jeff will increase your enthusiasm for teaching STEM and give you practical strategies to greatly enhance your students' achievement in STEM learning!***

Dear Colleague:

Life is about solving problems. Problems are multifaceted and do not usually have "one" correct way to solve them! With STEM, you can WOW your students with demonstrations, tap into their wildly creative brains and watch amazing learning take place while they solve problems. The process is truly incredible to see. I am excited to spend the day with you sharing the best STEM tips, techniques, strategies, and activities that will interest and engage your students. These are lessons I use in my classroom and that my students embrace.

The beauty and success of the activities and lessons I'll share is that students become owners of their learning. They are highly engaged, have a stake in the product and rise above basic expectations to achieve success. Being engaged is the core of my teaching. The person who is "doing the work" is also the person who is "doing the learning." Students develop a deeper understanding of skills and concepts through natural curiosity and interest. I'll show you how to implement the integration of content areas, teamwork, inquiry, discussions, experimenting, tapping into technology, and choice. I will share tips to get your students to analyze their work, utilize their strengths, step out of their comfort zones, and take educational risks. Students will learn to take responsibility for improving their work and giving their best effort, rather than checking an item off a list as "done."

It is my pleasure to share low- to no-cost, practical, hands-on strategies and activities with you. I want to transform your classroom by using STEM to help your students achieve greater success. You will have multiple opportunities to practice them as well as a wealth of tricks to immediately take back to your own classroom. I will also provide tips on how to help parents understand and support the activities I share with you.

I will show you how to use STEM to turn your students into motivated, creative, energetic, eager, and active problem solvers. My goal is for you to leave with renewed enthusiasm for teaching and practical ideas to immediately share your excitement with your students. I look forward to spending a high-energy, fast-paced, informative, and AWESOME day with you!

Sincerely,

Jeff Stenroos

**P.S. I know how valuable your time is so I promise you will leave this seminar inspired and ready to use new STEM strategies and ideas in your own classroom!**

*"I will show you how to use STEM to turn your students into motivated, creative, energetic, eager, and active problem solvers."*

# What Your Colleagues Say About Jeff Stenroos

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*"I really enjoyed Jeff's seminar! **He was engaging, knowledgeable and helpful.** I appreciated that we got to participate in the activities he shared. I will definitely recommend this seminar to other teachers in my school!"*

– Heather Ewen, 3rd Grade Teacher

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*"Great seminar! **I'm looking forward to using all of the ideas** with my students."*

– Laura Moulton, Teacher

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*"**I had so much fun watching and participating in the activities!** I love the idea of cost effective structures for the kids. **STEM and STEAM activities are exciting!**"*

– Chris Simmons, 5th Grade Teacher



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*"**Jeff shared many activities to bring back to my school.** STEM is a relatively new initiative at our school, so I enjoyed learning about the design process and the characteristics of a STEM lesson. I can now make the connections between what we are doing now and how we can enhance that with STEM instruction."*

– Meghan Bello, PYP Coordinator

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*"Jeff was incredibly enthusiastic and very knowledgeable. The content was useful and interesting, and **the activities were designed to take directly into the classroom.**"*

– Sarah Boyer, 4th Grade Teacher

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*"**Very hands-on!** I had a lot of fun and found myself asking many questions as a learner. I am looking forward to adding more STEM lessons with my students. Jeff has great energy and a lot of experience."*

– Emily Verdrick, 2nd Grade Teacher

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*"**Great enthusiasm from Jeff!** I enjoyed the projects and activities. Participating in them helped make it more realistic than simply watching a demo or a video. Thank you for an entertaining day!"*

– Don Jally, 5th 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. You may earn optional graduate-level credits for most courses. See the catalog of available courses at [www.ber.org/onlinelearning](http://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](http://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:



### 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](http://www.ber.org/onlinelearning)



## Extensive Resource Handbook

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

- Ideas to spark inquiry and collaboration using STEM activities
- Templates and examples of student-centered lab notebooks and inquiry-driven lessons
- A wealth of websites, apps and technology resources to discover STEM activities and projects for your own classroom

## Meet and Share

This seminar provides participants a great opportunity to meet and share ideas with other educators interested in strengthening their programs with STEM instruction.

## Consultation Available

Jeff Stenroos will be available at the seminar for consultation regarding your questions and the unique needs of your own 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

### New Jersey

NJ Professional Development Hours Available with Prior District Approval; PA CPE Hours Verification Available with Prior District Approval in Cherry Hill

### New York

5 NY CTLE Hours Available; NJ Professional Development Hours Available with Prior District Approval in Long Island; PA CPE Hours Verification Available with Prior District Approval in Buffalo

## 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.

# Practical Strategies to Enhance STEM Learning in Your Classroom (Grades K-6)

## Registration (CSX9F1)

- 1. **Buffalo** (Cheektowaga), NY – November 20, 2018
- 2. **Cherry Hill** (Voorhees), NJ – December 17, 2018
- 3. **Long Island** (Plainview), NY – December 19, 2018
- 4. **Newark** (West Orange), NJ – December 18, 2018
- 5. **Rochester** (West Henrietta), NY – November 19, 2018

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 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: ECSXF1**

## METHOD OF PAYMENT – Team Discount Available

**The registration fee is \$269 per person,** for teams of three or more registering at the same time, the fee is \$249 per person. **Payment is due prior to the program.** No cash please.

- A check (payable to **Bureau of Education & Research**) is attached
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## FOUR EASY WAYS TO REGISTER:

 **REGISTER ONLINE** at: [www.ber.org](http://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 \$269 per person, \$249 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:

- Buffalo: Holiday Inn – Airport, (716) 634-6969
- Cherry Hill: Mansion on Main Street – Voorhees, (856) 751-1717; hotel accommodations available at SpringHill Suites – Voorhees, (856) 782-2555
- Long Island: Holiday Inn – Plainview, (516) 349-7400
- Newark: The Wilshire Grand Hotel – West Orange, (973) 731-7007
- Rochester: R.I.T. Inn & Conference Center – West Henrietta, (585) 359-1800

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](http://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.

# Practical Strategies to Enhance STEM Learning in Your Classroom

## (Grades K-6)



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# Increase STEM Learning in Your Classroom

## (Grades K-6)



**Best Practices to Strengthen Your Students' STEM Learning**

**A Unique One-Day Seminar**

**Coming to a Location Near You**

CSX9F1



Bureau of Education & Research

# Practical Strategies to Enhance STEM Learning in Your Classroom

## (Grades K-6)



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

Presented by

**Jeff Stenroos**

Outstanding STEM Teacher and National Presenter

The **key components to successfully enhance STEM learning** across all content areas in your grades K-6 classrooms

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**Learn dozens of strategies, tips and tools** to ensure positive STEM learning outcomes for your elementary students

Discover **innovative, motivating ways to focus on STEM-related skills** such as problem solving, working collaboratively, research, and planning and executing a design process