Bureau of Education & Research

Live Online Seminar or Recorded Version

Innovative, Phenomena-Driven Strategies to Increase Student Engagement and Learning of the *Next Generation Science Standards* (Grades 6-12)





A Unique One-Day Live Online Seminar Presented by

Vince Mancuso

Experienced Science Teacher, Outstanding National Presenter and Author of *Phenomena-Driven Inquiry*

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

Discover **classroom-tested and research-based strategies, lessons and techniques** to successfully use rewarding phenomena-driven instruction that aligns with the *NGSS*

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

Learn the most effective techniques and strategies to design, implement and **deliver highly rewarding 3D learning experiences centered on phenomena**

Dozens of practical methods and strategies to effectively strengthen your existing science program as you align it to the *NGSS* using phenomena-driven inquiry

LIVE ONLINE SEMINAR

February 23

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)

"Vince is so passionate about science... it's infectious! This was one of the most useful PDs I've attended."

– LINDA PEER, SCIENCE DEPARTMENT CHAIR

Ten Key Benefits of Attending

> "Amazing seminar. Vince was incredibly kind and patient, but most importantly, so knowledgeable about the topic."
>
> – ALISON MUNSEY, TEACHER



1. **Powerful, Phenomena-Driven Lessons to Invigorate Your *NGSS* Classroom**
   Learn from an outstanding secondary science teacher and national presenter about how you can bring new life into your science program using phenomena-driven instruction … Practical strategies 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 take your current program, units and lessons and incorporate phenomena to help students make real-world connections

3. **Use Phenomena-Driven Instruction to Tap Into Students' Natural Curiosity**
   Experience science from the student perspective – how they experience, 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 curious and shocking discrepant event phenomena

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

6. **Take Home *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. **Make Your Science Classroom More Student-Centered**
   Learn a variety of outstanding techniques to fully focus your students on learning the key concepts and skills of the *Next Generation Science Standards* and how to provide multiple opportunities for students to practice and master these skills

8. **Strengthen Your Students' Collaboration Skills**
   Build a more collaborative learning environment … Help your students develop their teamwork skills to discover and learn science

9. **Maximize and Strengthen Inquiry-Based Practices**
   Learn the most effective inquiry-based practices and management strategies to develop a strong, student-centered classroom

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 **ways to use phenomena to engage, excite and generate curiosity** in your *NGSS* classroom
- Brand **new discrepant events delivered in entirely unique ways** never seen before
- Learn the skills to **align your science curriculum with the *NGSS* goals and objectives** focused on phenomena
- Maximize and strengthen your inquiry-based practices to **develop a more student-centered, *NGSS*-aligned classroom**
- Highly effective **strategies to incorporate discourse and argumentation** into your classroom
- Experience startling **natural phenomena that can be immediately implemented** in your instruction
- Discover **discrepant event demonstrations you can use to focus on a particular science concept** and across other content areas
- **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 you can begin to **use students' wonder and curiosity** for amazing natural phenomena in ways that contradict expectation
- Specific ideas and strategies to help you **include and manage phenomena in**



"Vince was engaging. He really helped shift my thinking as a science teacher. I'm excited to introduce topics in a new type of way. I really enjoyed his ideas."

– JENNIFER YEUNG, 7TH GRADE SCIENCE TEACHER

Practical Ideas and Strategies

We are in the midst of a shift in the way we deliver science instruction to our students and in the way our students experience and learn science. The spotlight, weight and emphasis on phenomena represents a revolutionary shift in the way science is delivered, experienced and learned. In this interactive seminar, you will learn how to develop and strengthen your instruction to meet this shift toward the *NGSS*. You will learn practical, motivating and proven techniques to boost student understanding and application of key science skills and concepts using phenomena-driven lessons.

Throughout the day, **VINCE MANCUSO**, an experienced secondary science teacher, will show you how to integrate the three dimensions of the *NGSS* into engaging instructional sequences that will motivate students and maximize their learning. You will receive a wealth of innovative ideas for incorporating phenomena into your daily lessons. During this fast-paced seminar, the emphasis will be placed on practical strategies to incorporate phenomena into your instruction in ways that fully involve students and increase their enthusiasm for learning.

Come and discover the best, new ways to facilitate students' mastery of the new *NGSS* using phenomena and discrepant events and see the significant difference it will make in their achievement in science!



A Message From Seminar Leader, Vince Mancuso



Uniquely Qualified Instructor

VINCE MANCUSO is a highly experienced science teacher, national presenter and author with a passion for phenomena-driven inquiry and the *NGSS*. He is a frequent presenter at science conferences where his sessions draw standing-room only crowds. Vince enjoys sharing his enthusiasm for using phenomena to get students excited and curious about science. His ideas are powerful and practical and all have been student-proven in his own classroom. He is the author of *Innovative, Phenomena-Driven Strategies to Increase Student Engagement and Learning of the Next Generation Science Standards (Grades 6-12)*, the extensive digital resource handbook each participant will receive.

Join Vince for a highly valuable day filled with practical strategies you can use to inspire and excite all your students about science and increase their learning of the *NGSS*.

Dear Colleague:

The *Next Generation Science Standards* brought sweeping changes to the traditional science instructional practices. One of the most significant changes put phenomena-driven learning as a key focus of educational strategy and practice. One central feature of the *NGSS* is the three-dimensional approach that guides students as they make sense of phenomena and learn key science skills and concepts. But without focused direction and resources, it can be overwhelming.

This dynamic and interactive one-day seminar is designed to guide and support you as you work to implement and align the phenomena-focused goals and objectives of the *NGSS* in your science instruction. Regardless of your level of knowledge and implementation of the *NGSS*, you will leave with new ideas and strategies that you will be able to immediately implement.

You will learn proven methods and strategies that I have researched and tested with my own students. I will give you tips, techniques, and practical ideas that I know work with students. Representing the most current research and classroom-tested strategies, this highly informative seminar will give you the tools you need to strengthen your science instruction and increase students' science achievement.

I hope you will join me for this valuable experience that will inspire and motivate you to return to your classroom and immediately implement the resources and cutting-edge instructional techniques I will share at this seminar. You will also leave with an extensive digital resource handbook that includes the resources shared during the seminar. I am incredibly excited to work with you!

Sincerely,

Vince Mancuso

Vince Mancuso

P.S. 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 classroom.

"This dynamic and interactive one-day seminar is designed to guide and support you as you work to implement and align the phenomena-focused goals and objectives of the NGSS in your science instruction."

What Your Colleagues Say About Vince Mancuso

*"The day was a **good balance of theory and practical examples.** I think the best PDs teach the method they're advocating for WITH that method. We learned phenomena WITH a phenomenon, and the power of using them in the classroom was immediately clear."*

– Adam Schulte, Science Teacher

*"**Best science professional development seminar I have been a part of.** Used real examples, and showed us how to implement the strategies instead of just dumping vague information."*

– Olivia Loudermilk, Teacher

*"Thank you so much for your **enthusiasm and practical approach** to help us better teach our students."*

– Nancy Kinsella, 6th Grade Science Teacher

*"**There were so many great ideas shared.** Thank you for the explanation of the NGSS and the 3D modeling."*

– Tanya Kores, Science Teacher

*"This was by far the **most impactful professional development experience I've ever had!** The practical examples shared, coupled with Vince's incredible enthusiasm and engagement, made it truly exceptional. Thank you so much for this opportunity!"*

– Ceirra Orelli, Biology Teacher







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 50 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



"Vince was AMAZING! I've already inquired about taking another seminar by him."

– REGINA BERGERON, TEACHER

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*
- Powerful strategies to integrate and facilitate rich discourse and argumentation in your classroom
- 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 using phenomena-driven instruction.

Consultation Available

Vince Mancuso will be available for consultation regarding your questions and the unique needs of your own science 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 A nonprofit affiliate

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

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 Course

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

Innovative, Phenomena-Driven Strategies to Increase Student Engagement and Learning of the *Next Generation Science Standards* (Grades 6-12)

Registration (CNZ7S1)

☐ **1. February 23, 2027** (Start time: 9 AM Eastern)

—or —

☐ **2. 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: ECNZ7S1

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)

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Please print name as it appears on card

FIVE EASY WAYS TO REGISTER:

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

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**
3000 Northup Way
Bellevue, WA 98004

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**



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Includes an extensive digital Resource Handbook

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Next Generation Science Standards:
Innovative, Phenomena-Driven Strategies to Increase Learning
(Grades 6-12)

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(Grades 6-12)





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Presented by

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