

# “FLIP” YOUR SCIENCE INSTRUCTION: Practical Strategies and the Best, New Tools (Grades 6-12)



**NEW Seminar Presented by BRIAN MILLER**  
Outstanding Science Educator and National Presenter

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

- ▶ **Learn the key components to successfully flip your classroom instruction** for science in grades 6-12
- ▶ **Step-by-step ideas for creating flipped science lessons** that fully involve your students and enhance their learning
- ▶ **Powerful websites, apps and educational innovations** that are shaping the future of effective science instruction and reaching all students
- ▶ **Strategies, tips and timesaving tools** to meet the needs of all of your students in science by using the best technology tools to flip your science instruction
- ▶ **Innovative, engaging, accessible apps and outstanding tech tools** – including virtual manipulatives – to create engaging, differentiated science lessons
- ▶ Receive an **extensive resource handbook** filled with dozens of resources, strategies and ready-to-use tips to begin flipping your science instruction

## 2015 SCHEDULE

### California

**Anaheim – February 12**  
(Buena Park)

**Pasadena – February 11**  
(Arcadia)

### Georgia

**Atlanta – March 13**

### Missouri

**St. Louis – February 10**  
(Bridgeton)

MO Inservice Credit Available  
with Prior District Approval

IL CPDUs Available with Prior District Approval

### Nebraska

**Omaha – February 9**

NE Inservice Credit Available  
with Prior District Approval

### New York

**Long Island – March 9**  
(Plainview)

NY CPE Hours Verification Available  
with Prior District Approval

NJ Professional Development Hours  
Available with Prior District Approval

### Ohio

**Cleveland – March 10**  
(Middleburg Heights)

OH CEUs Available with District Approval

### Virginia

**Northern Virginia – March 11**  
(Springfield)

**Richmond – March 12**  
(Sandston)

VA Renewal Points Available

## Practical Strategies

In this highly engaging, interactive **NEW** seminar, you will learn innovative ways to use technology to “flip” your secondary science classroom. The “flipped” classroom is based on the idea that students need their teachers to provide assistance and guide their learning during class time, when they are working with new skills and concepts. This unique way of utilizing technology enables you to present introductory lessons in science that your students can access outside the classroom, making it possible for you to work more directly with them during class time to practice and master the skills they need to know.

During this fast-paced seminar, **Brian Miller**, an experienced secondary science educator and national presenter, will show you how to create short, engaging science video lessons for your students to view prior to class, as well as new approaches, practical strategies, tips, and tools about what to do during class time, after the students have viewed your video lessons, to strengthen their learning. You’ll see how to use class time more efficiently to meet the needs of all students, whether they need additional help in mastering basic skills or they are ready for more challenging work.

Throughout the day, the emphasis will be on new ways to help your students master rigorous science skills and concepts, including those aligned with the Next Generation Science Standards, by fully utilizing your class time to support student learning and engagement in hands-on science as well as project-based critical thinking and collaboration.

You will leave this dynamic, empowering seminar with new insights, practical strategies, and an extensive resource handbook filled with practical ideas for flipping your secondary classroom for science instruction. Come and discover the exciting world of flipping your classroom, then watch your students’ motivation and enthusiasm soar for learning science!

## Ten Key Benefits of Attending

- 1. Discover the Key Components of Flipping Your Science Classroom**  
Learn from an enthusiastic secondary science educator and national presenter about the essential components for creating a flipped learning environment for science in grades 6-12 ... Practical tips to get you started in implementing this powerful approach to teaching
- 2. Make Your Class Time More Student Centered**  
By having students access science lessons outside of class, you will free up valuable class time for laboratory work, experimental demonstrations, hands-on collaboration, small group work, and opportunities for students to practice and master key science skills and processes ... See how to do this in ways that will enhance student learning
- 3. Tap into Highly Effective Apps and Free Tools to Bring New Life to Your Science Lessons**  
Learn step-by-step strategies for using apps, free software programs, and outstanding tools – including virtual manipulatives – to create short videos that introduce students to new concepts and skills ... See how to create multimedia presentations that keep students engaged and allow them multiple opportunities to view your introductory lessons
- 4. Maximize Every Student’s Science Development**  
Enhance your science program by flipping your classroom for any science discipline ... Discover dozens of highly motivating activities designed to engage all types of learners, both within and outside the classroom
- 5. Meet Your Students on Their Terms and Through Their Media**  
Students today are highly skilled in using technology and they learn best by using the tools they love to use ... Discover cutting-edge technology techniques to get students fully involved in learning science
- 6. Increase Student-to-Teacher Interaction Time**  
Learn how flipping for science increases student-with-teacher interaction, which leads to greater student achievement ... Practical ideas to focus on students’ specific needs and to make learning science more enjoyable and successful
- 7. See the Results from Using Today’s Best Technology Resources**  
Engage your students in motivating, “just right” activities that will positively influence their performance on high-stakes testing, including those associated with the Next Generation Science Standards ... Take advantage of the power of flipping your classroom to help your students succeed
- 8. Use Apps and Online Resources for Formative Assessment**  
See multiple ways to use today’s best apps and web-based resources to quickly and efficiently gauge your students’ progress in science ... Timesaving tools you can use immediately to assess students’ learning and best address their needs
- 9. Create Differentiated Activities Based on Students’ Needs**  
See how to use the flipped classroom model to work with your struggling students as well as to provide opportunities for advanced students to achieve more in-depth levels of understanding ... Proven strategies that students love and effective techniques that will significantly decrease their stress or boredom in learning science
- 10. Receive an Extensive Science Resource Handbook Focused on Flipping Your Classroom**  
Each participant will receive a comprehensive resource handbook filled with practical ideas, apps, websites, and valuable strategies for creating, finding and managing flipped lessons for science in grades 6-12 ... Dozens of practical ideas, information and resources to help you get started immediately!

## Outstanding Strategies You Can Use Immediately

- How to get started in **implementing a successful flipped classroom** for all science disciplines in grades 6-12
- Practical tips and tools for using mobile technology to **create “flipped” learning experiences** for your students
- **How to design outstanding flipped science lessons** with highly effective apps and other tech tools to meet the needs of ALL your students
- **Step-by-step techniques for using the flipped classroom** to effectively teach rigorous science skills and concepts, including those aligned with the Next Generation Science Standards
- Specific ways to **increase the level of success for every student** in science
- How to **create a more accessible learning environment** for all students
- **Creative ways to reach students** in their world through online tools and media they already use
- **Innovative, student-centered strategies** to implement the flipped classroom in secondary science classes
- **Low-cost and no-cost ideas** for flipping your classroom for science – including resources where you can find teacher-made flipped lessons
- Practical, effective, proven strategies to **create better student engagement** in learning science
- What’s new in educational technology, including **apps and outstanding software** that are ideal for differentiated learning in a flipped classroom
- Dozens of ways to **fully involve ALL your students** during in-class learning
- **Step-by-step instructions for creating effective videotaped lessons** that can be used to pre-teach, re-teach and strengthen understanding
- Creative ways to **teach and reinforce essential science vocabulary** using technology
- **How to get students to communicate, collaborate and think** by asking questions and making observations during the video lessons
- Ideas and techniques to **manage your science class effectively** by using the latest technology
- Proven techniques to **involve students in “seeing and doing” science** with effective video clips that enhance your science instruction
- A **wealth of ideas and ready-to-use tools** for flipping your classroom to make science instruction come alive!

“Spectacular presentation! Valuable information and very easy to understand. I feel much better equipped to flip a lesson. In fact, I’ll try it right away!”

– JAMIE NIKOLAI, 7TH/8TH GRADE SCIENCE TEACHER



To Register,  
Call Toll-Free

1-800-735-3503

## A Message From Your Seminar Leader, Brian Miller



“ I will respect your valuable time by sharing only the best resources and strategies for flipping your science classroom, including the most powerful tools, exciting apps and best online resources for teaching all secondary science disciplines.”



### Bureau of Education & Research

915 118th Avenue SE • PO Box 96068 • Bellevue, WA 98009-9668  
Phone (800) 735-3503 • Fax (425) 453-1134 • www.ber.org

Dear Colleague:

I look forward to welcoming you to this **NEW** seminar and a day that will be filled with a wealth of outstanding ideas and practical, “take right back to your classroom” strategies that you can use to begin flipping your own secondary science classes. Specifically designed for teachers in Grades 6-12, our day will focus on highly effective tools and techniques, a wealth of apps and excellent, ready-made science lessons, as well as other outstanding tech tools designed to successfully flip your science instruction.

As an experienced secondary science educator, I am seeing some remarkable outcomes from flipping my science instruction. I have students who come to class more prepared, more eager to learn and much better able to meet the rigorous new standards they are expected to learn. From my perspective, flipping my instruction has enabled students to use the technology they love to use to learn science, in ways that significantly increase their involvement and achievement. In addition, I am convinced that classroom management has become much easier and student motivation has greatly increased. It is my pleasure to share many of the strategies, tips and timesaving tools I have discovered to flip your science instruction.

One of the greatest benefits of flipping my science classes is that I now have the chance to work with students who need the extra boost, a little further explanation, or simply the encouragement to keep on trying. Without having to spend the bulk of my time introducing new skills and concepts in class, my students now receive this instruction electronically – in a variety of easy-to-make and easy-to-use formats. That means I can spend the majority of class time working with small groups, from those who need additional help to those who are ready to be challenged at higher levels. Flipping my classroom has given me a larger block of time to differentiate my instruction and meet the diverse needs of my students. The flipped pedagogy has provided both the time and freedom to provide my students with opportunities for critical thinking and to work collaboratively through more hands-on science and project-based learning. These skills are the hallmarks of the Next Generation Science Standards.

I will respect your valuable time by sharing only the best resources and strategies for flipping your science classroom, including the most powerful tools, exciting apps and best online resources for teaching all secondary science disciplines. Throughout the day I will show you simple yet powerful ways to take full advantage of this exciting new concept.

I look forward to sharing a valuable day with you!

Sincerely,

Brian Miller

P.S. You'll leave this seminar inspired, enthusiastic and ready to flip your classroom for science. In addition, you will have a valuable toolkit full of **practical, ready-to-use, engaging, and innovative ideas** to use immediately in your own secondary science instruction.

# What Your Colleagues Say About Brian Miller

*"A breath of fresh air and a reminder of why I teach! I am **excited to try flipping my instruction!**"*

– Carolyn Erwin, High School Science Teacher

*"Thank you, Mr. Miller! I can now say that I'm **motivated and inspired to flip my science class!**"*

– Angela Colón, 6th Grade Science Teacher

*"Very concrete and applicable information! I can **definitely use what I learned today!**"*

– Katie Rutledge, 6th Grade Science Teacher

*"**Great resources and great ideas!** You didn't just show us what to do, you showed us how to do it!"*

– Laura Kleven, High School Science Teacher

*"I've been teaching for nine years and I can honestly say this was **the most helpful and useful seminar** I have attended! Brian enlightened and inspired me to try flipping my instruction!"*

– Matt Perekupka, Chemistry Teacher

*"You can tell Brian is a teacher, not just a presenter. **He gave us ownership of the seminar** in the same way he encouraged us to give our students ownership of their learning!"*

– Kathy Buck, 8th Grade Science Teacher

*"**Great ideas, experiences and strategies!**"* – Nick Johnson, Chemistry Teacher

*"It was interesting to **see another way to flip my instruction** – new tools, easy ways to make videos, and great sources for finding videos that are already available!"*

– Shannon Gillespie, High School Science Teacher

*"This seminar had **great ideas and strategies, amazing resources and ideas** that can be modified to fit various levels of students!"*

– Erin Chiaravalloti, Chemistry Teacher

*"**Very informative and inspiring!**"*

– Ty'anna Bailey, Science Teacher

*"Excellent seminar! The flipped instruction idea helps me find the time to **engage students in activities, labs and projects without compromising content!**"*

– Russ Rizzo, 8th Grade Science Teacher

*"This seminar was **organized, thought-provoking and practical!** Brian is an engaging teacher and I'm taking away more than just ideas about flipping my instruction!"*

– Nichole Benson, High School Instructional Coach

## Uniquely Qualified Instructor

**Brian Miller** is an outstanding science educator and a dynamic national presenter known for his enthusiastic, highly practical and engaging seminars chock-full of ideas that secondary teachers can use immediately to flip their classrooms for all disciplines in science instruction.

Brian has more than thirty years of experience teaching biology, chemistry, physics, anatomy, and environmental science in grades 6-12, including firsthand experience at flipping his science instruction. Brian is the author of "**FLIP**" *YOUR SCIENCE INSTRUCTION: Practical Strategies and the Best, New Tools (Grades 6-12)*, the extensive resource handbook each participant will receive at the seminar.

Spending the day with Brian is a rich opportunity filled with practical, creative and ready-to-use strategies and ideas, all perfect for flipping your secondary classroom for science instruction. You will leave this dynamic seminar with increased enthusiasm for teaching science and dozens of practical strategies you can use immediately in your own science instruction to enhance your students' achievement.



“*Brian’s passion is contagious! This seminar was very informative, exciting and compelling!*”

– ANNE CLIFTON-WAITE,  
HIGH SCHOOL SCIENCE TEACHER

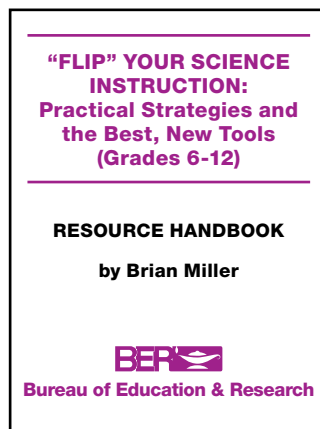


## Special Benefits of Attending

### Extensive Resource Handbook

Each participant will receive an extensive resource handbook with a wealth of materials specifically designed for this seminar. Included in the handbook are:

- Step-by-step instructions for using free software to create flipped classroom videos
- A wealth of ideas for planning the follow-up lessons and activities to use after students have viewed the videotaped lessons
- Practical ideas for helping your students meet rigorous science content and practice standards, including those aligned with the Next Generation Science Standards
- Ready-to-use ideas for differentiating lessons in a flipped classroom setting
- Timesaving tips and classroom management tools associated with flipping your classroom



### Meet and Share

This seminar provides a wonderful opportunity for participants to meet and share ideas with other secondary educators interested in flipping their classrooms for science instruction.

### Consultation Available

Brian Miller will be available at the seminar for consultation regarding your questions and the unique needs of your own science instruction.

### Semester Credit Option



One graduate level professional development 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.

### Can't Attend?

A related BER On Demand Video-Based Online Learning course, *Flipped Learning: Practical Classroom-Based Strategies that Boost Student Learning and Achievement, Grades 6-12*, is available for immediate purchase. To enroll, visit [www.ber.org/onlinelearning](http://www.ber.org/onlinelearning).

### Online Learning

BER offers educators a wide range of online courses that are affordable, fun, fast, and convenient. 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](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.

## FOUR EASY WAYS TO REGISTER:



**PHONE toll-free:**

**1-800-735-3503**

(Weekdays 6 a.m. - 6 p.m. Pacific Time)



**REGISTER ONLINE at:**

**www.ber.org**



**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

## Who Should Attend

Educators who teach science in grades 6-12: Classroom Teachers, Science Specialists and Coaches, Special Education Staff, Title I Staff, Technology Specialists, 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 \$235 per person, \$215 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:

- Anaheim: Knott's Berry Farm Resort Hotel – Buena Park, (714) 995-1111
- Atlanta: Holiday Inn – Dunwoody, (770) 457-6363
- Cleveland: Crowne Plaza – Airport, (440) 243-4040
- Long Island: Holiday Inn – Plainview, (516) 349-7400
- Northern Virginia: Hilton – Springfield, (703) 971-8900
- Omaha: Regency Lodge, (402) 397-8000
- Pasadena: Embassy Suites – Arcadia, (626) 445-8525
- Richmond: Holiday Inn – Airport, (804) 236-1111
- St. Louis: Crowne Plaza – Airport, (314) 291-6700

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



## Possible Funding Sources

Race to the Top grants; 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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## "FLIP" YOUR SCIENCE INSTRUCTION: Practical Strategies and the Best, New Tools (Grades 6-12)

### Registration (CFM5W1)

- 1. **Anaheim** (Buena Park), **CA** – February 12, 2015
- 2. **Atlanta, GA** – March 13, 2015
- 3. **Cleveland** (Middleburg Heights), **OH** – March 10, 2015
- 4. **Long Island** (Plainview), **NY** – March 9, 2015
- 5. **Northern Virginia** (Springfield), **VA** – March 11, 2015
- 6. **Omaha, NE** – February 9, 2015
- 7. **Pasadena** (Arcadia), **CA** – February 11, 2015
- 8. **Richmond** (Sandston), **VA** – March 12, 2015
- 9. **St. Louis** (Bridgeton), **MO** – February 10, 2015

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

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 ECFM5W1**

### FOUR EASY WAYS TO REGISTER:

**PHONE toll-free: 1-800-735-3503** (M-F 6 a.m. - 6 p.m. PST)

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

**MAIL this form to:**  
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Bellevue, WA 98009-9668

**REGISTER ONLINE at: [www.ber.org](http://www.ber.org)**



## Practical Strategies to "FLIP" Your Science Instruction (Grades 6-12)

Prsrtd Std  
U.S. Postage  
**PAID**  
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Education &  
Research

CFM5W1

PLEASE DO NOT DETACH MAILING LABEL (Just make corrections as needed)

## "FLIP" YOUR SCIENCE INSTRUCTION: Practical Strategies and the Best, New Tools (Grades 6-12)



### METHOD OF PAYMENT

The registration fee is \$235 per person,  
for groups of five or more registering at the same time, the fee is \$215 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

Please print name as it appears on card

Signature (required for credit card purchases)

CONFIRMATION # (If you are confirming a previous registration) \_\_\_\_\_