

Making Best Use of DESMOS to Strengthen Your MATH Instruction (Grades 6-12)



A Unique One-Day Live Online Seminar Presented by

Leigh Nataro Nolan Doyle

Outstanding Secondary Math Teachers,
Desmos Certified Presenters and Fellows

Specifically Designed for Grades 6-12 Mathematics Teachers;
Teachers of General Math, Algebra, Geometry, Pre Calculus, Calculus,
Statistics; Math Curriculum Coordinators and Administrators

Dozens of practical strategies for best utilizing FREE Desmos to strengthen your secondary Math students' engagement and learning – **whether you are teaching at school or online**

How to make best use of Desmos Calculator and Activity Builder to greatly enhance your grades 6-12 math instruction

Explore highly practical ways you can use Desmos on Chromebooks, computers, iPads, and mobile devices to increase your students' success

Receive an extensive digital Desmos resource handbook and special online access so you can immediately link to the resources presented in this seminar

Live Online Seminars presented by Leigh Nataro

February 2

9 AM Pacific, 12 PM Eastern,
11 AM Central, 10 AM Mountain

February 4

9 AM Eastern, 8 AM Central,
7 AM Mountain, 6 AM Pacific

February 9

9 AM Central, 10 AM Eastern,
8 AM Mountain, 7 AM Pacific

February 11

9 AM Mountain, 11 AM Eastern,
10 AM Central, 8 AM Pacific

Live Online Seminars presented by Nolan Doyle

March 4

9 AM Eastern, 8 AM Central,
7 AM Mountain, 6 AM Pacific

March 5

9 AM Pacific, 12 PM Eastern,
11 AM Central, 10 AM Mountain

March 25

9 AM Central, 10 AM Eastern,
8 AM Mountain, 7 AM Pacific

March 26

9 AM Eastern, 8 AM Central,
7 AM Mountain, 6 AM Pacific

CAN'T ATTEND?

Order the recorded version
and take the seminar online at
your convenience (see page 6)

CEUs and Graduate Credit Available

See page 6 for details

Ten Key Benefits of Attending

'I found this Desmos online seminar very informative, and I liked all the follow-up options for future support.'

– KATHRYN H. CHACE,
MATH COACH



Who Should Attend

Grades 6-12 Mathematics Teachers; Teachers of General Math, Algebra, Geometry, Pre-Calculus, Calculus, Statistics; Math Curriculum Coordinators and Administrators

- 1. Strengthen Your Math Instruction with FREE Desmos – Whether You Are Teaching at School or Online**
What every grades 6-12 Math teacher needs to know about fully tapping into Desmos and Desmos Activity Builder ... The best, most useful aspects for strengthening your in-person or online Math instruction
- 2. Generate Excitement and Increase Student Motivation**
Explore high interest, practical Desmos activities that spark students' curiosity and strengthen their perseverance in problem solving
- 3. Explore High Interest, Practical Desmos Activities That Spark Students' Curiosity and Strengthen Their Perseverance in Problem Solving**
Save time and incorporate or quickly adapt premade Desmos lessons perfect for your math students ... Learn the keys to building outstanding Desmos lessons and how to easily create your own
- 4. Utilize the Newest Features of Desmos Calculator and Activity Builder**
Desmos is constantly improving and adding features in response to teacher feedback ... Leverage the newest features of Desmos, perfect for your grades 6-12 math instruction
- 5. Differentiate Instruction and Help Students Move from Concrete to Abstract**
Incorporate activities that strengthen concept building by allowing students to advance when they are ready ... Discover ways to challenge and engage highly capable students so you can focus more on the students who need you most
- 6. Essential Desmos Features to Help Students to Explore Mathematical Ideas**
Discover and create dynamic tables, graphs and sliders students can use to make predictions, notice patterns, revise conjectures, construct understanding, and more! ... Easily import data from a Google Form into a table for students to analyze
- 7. Use Desmos to Help Students Adopt a Growth Mindset**
Enable students to adopt a growth mindset and value mistakes in the learning process ... Explore ways to help students refine their thinking before formalizing the math concepts they are learning
- 8. Strengthen Students' Mathematical Vocabulary and Written Expression**
Explore multiple lessons that develop students' accuracy in their mathematical communication ... Help your students refine their explanations based on feedback they see in a Desmos Activity Builder lesson
- 9. The Best Desmos Tips and Shortcuts to Streamline Your Instruction**
Explore timesaving shortcuts to make your instruction more productive ... Practical ways to make demonstrations faster and easily save your work from one class to the next
- 10. Receive an Extensive Digital Desmos Resource Handbook with Special Online Access to Additional Resources**
You will receive a digital resource handbook packed with ideas, suggestions and instructions for using Desmos to enhance your math instruction – whether you are teaching at school or online ... Receive special online access to your instructor's Desmos files and several collections of Desmos activities

Outstanding Strategies You Can Use Immediately

What You Will Learn ...

- **Practical strategies for making best use of Desmos Calculator** and Activity Builder to enhance instruction and student engagement in your math classroom – whether you are teaching at school or online
- **Premade Desmos Activity Builder lessons** you can instantly incorporate or easily adapt to enhance your mathematics instruction
- **How to help students test conjectures** and investigate mathematical relationships
- **Ways to find, curate and share collections** of Desmos activities with your colleagues
- **Numerous ideas and lessons to fully engage** your math students in productive, collaborative learning
- **Classroom-tested Activity Builder lessons** designed to increase your students' growth mindset for learning mathematics
- **Ways to use Desmos in a single and multi-device environments**, including Chromebooks, laptops, iPads, and mobile devices
- **Strategies for maximizing student learning** with the teacher dashboard including pacing, anonymizing and pausing within a lesson
- **Explore multiple calculator features** including tables, graphs, sliders, geometry, polar, parametric, lists, statistics, derivatives, and more!
- **Valuable tips, shortcuts and ideas** for organizing and sequencing learning to maximize instructional time
- **Premade files for a variety of concepts**, useful for in-class demonstrations or to create your own screencasts for flipped instruction
- **How to create Desmos graphs within Google Forms** and Google Docs using EquatIO

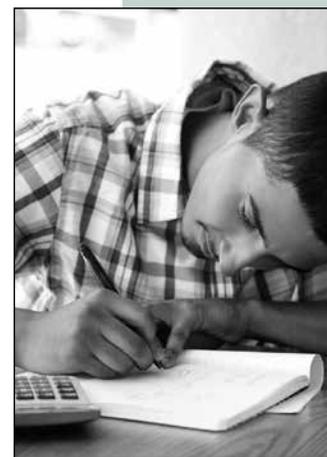


'This online seminar had so many helpful tips! I feel like I can navigate all the Desmos resources much easier, and I found many activities I can use right away.'

– TRACY L. BLAISDELL, MATH DEPARTMENT CHAIR

Practical Ideas and Strategies

This outstanding, **NEW** live online seminar is specifically designed for secondary mathematics educators who want to make best use of the FREE Desmos calculator and Desmos Activity Builder lessons to greatly enhance mathematics learning and instruction. Your instructor will share practical, effective ways to use Desmos to build strong conceptual understanding and increase student success in math. Enable students to deepen learning by constructing their own mathematical understanding. Increase students' confidence in their mathematical abilities and when faced with new concepts or challenging questions. Discover how Desmos online calculator is much more than just a replacement for a handheld device. Learn how to help students become mathematicians with Desmos – to conjecture, test ideas, notice and wonder, productively learn from mistakes, make connections between algebraic and graphical representations, and much more! **Whether you are new to using Desmos, an experienced user or anywhere in between, and whether you are teaching at school or online, you will leave this seminar with numerous practical ideas you can immediately implement to greatly enhance your math instruction.**



A Message From Your Seminar Leaders, Leigh Nataro and Nolan Doyle

Uniquely Qualified Instructors

LEIGH NATARO is a highly experienced secondary math educator, Desmos Certified Teacher and Fellow, and National Board Certified Teacher. She frequently presents at local, state and national conferences on best ways to use technology to increase student engagement – whether teaching in-person or online. Leigh is passionate about helping educators discover the joy of learning mathematics that can happen when students use Desmos for exploration and creation. **Join Leigh for an outstanding day full of specific ways you can get the most out of Desmos to strengthen your grades 6-12 math instruction.**

NOLAN DOYLE is a highly experienced secondary Math teacher, and Desmos Certified Presenter and Teaching Fellow. A frequent presenter at local, state and national levels, Nolan enjoys sharing practical ideas from his experience as a secondary math teacher and his work with the Desmos team. Nolan is passionate about finding ways of helping secondary students to succeed in and love learning math, exploring and connecting mathematical ideas in engaging ways. **Join Nolan for a day full of ways to make best use of Desmos – whether you're teaching in-person or online.**

Dear Colleague:

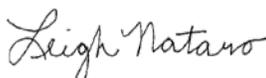
As secondary math educators, getting our students authentically motivated and engaged in learning mathematics can be challenging! Are you tired of students asking, “When are we going to use this?” or “Will this be on the test?” Do your students fear making mistakes or being viewed as “dumb” in front of their peers if their answer is not correct? Have you tried using handheld graphing calculators only to find students get bogged down knowing which buttons to push or what syntax to use? What we find so exciting about Desmos is that it has the power to greatly enhance our math instruction and to help us address these and so many other challenges we face.

We have specifically designed our live online seminars based on our years as secondary math teachers and Desmos-Certified Presenters. We are excited to share with you how to make best use of the FREE Desmos tools to greatly enhance your math instruction – whether you are teaching at school or online. Harness the power of Desmos calculators and Desmos Activity Builder lessons to help your students make and test conjectures, link multiple representations, draw connections between different concepts, take intellectual risks, learn from errors, use informal understanding to build formal conceptual understanding, and much more! Watch as your students’ confidence, interest and enthusiasm for learning math grows.

Join us for a day filled with practical ways to make best use of Desmos to strengthen your math instruction. Increase engagement and get your students to take a more active role in their math learning. Discover how to use Desmos to answer students’ “what if” questions and reinforce the relationships between algebraic and graphical representations. Explore Desmos Activity Builder from the student perspective and how to maximize student learning from the teacher dashboard. Easily build your own lessons and explore a host of pre-made Activity Builder lessons you can immediately incorporate or quickly adapt. Since Desmos is constantly changing we’ll explore the latest new features and updates! Plus, you will receive an accompanying Desmos digital handbook, which is packed with practical resources and instructions for special online access to our own growing digital collection of Desmos calculator files and Activity Builder lessons.

Whether you are brand new to Desmos, an experienced user or anywhere in between, this day is for you! If you have one or many Chromebooks, laptops, iPads, or computers we want to show you how you can make the most of Desmos to strengthen your instruction and your students’ learning in mathematics.

Sincerely,



Leigh Nataro



Nolan Doyle

P.S. We have personally witnessed how Desmos can transform math learning. We can't wait to show you how!

What Your Colleagues Say About Leigh Nataro and Nolan Doyle

"Such amazing resources for teaching students who struggle with math. The hands-on activities will support students' math understanding and skills."

Hyun Chul Choi, Math Teacher

"A day well spent! My understanding of Desmos and its many applications was much improved. My instructor was incredible and well versed in Desmos content. Thank you!"

Stephanie Callahan, Math Teacher

"Great ideas and resources that I can use immediately. I liked that we had time in breakout sessions to work with other teachers and play with what we were learning."

Cody McClave, Math Teacher

*"I've been to a math tools seminar before where Desmos was presented but I still learned ALOT about Desmos. This was very helpful and **gave me tools that I can use ASAP with my remote students.**"*

Rebecca Peabody, Math Teacher



About BER Live Online Seminars

With the current health challenges, all BER in-person PD events are currently being presented in a Live Online format:

Outstanding Instructors

All programs are led by outstanding BER national trainers

Extensive Resource Handbooks

You'll have access to an extensive digital Resource Handbook before, during and after your seminar

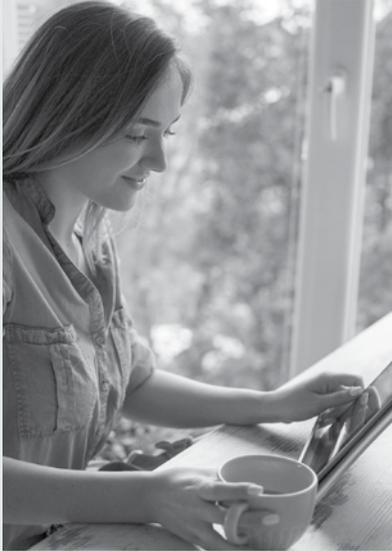
Highly Interactive

You'll be able to ask questions in real time and interact with the instructor and other participants

Program Guarantee

As we have for 43 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



'I definitely learned a lot and hadn't realized before how much Desmos has to offer.'

- MELISSA ROWEN,
MATH TEACHER

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.

Extensive Desmos Digital Resource Handbook

Each participant will receive an extensive digital resource handbook giving you access to countless strategies before, during and after the seminar. The handbook includes:

- Step-by-step guides for using Desmos to build strong conceptual understanding with your students – whether you're teaching in-person or online
- Screenshots to highlight various aspects of the teacher dashboard with practical suggestions for using them to maximize student learning
- Suggested ways to use Desmos to teach concepts ranging from pre-algebra through calculus and statistics
- A reference list for specific calculator syntax, including common syntax errors
- Links to collections of activities that span secondary grade levels and courses

Consultation Available

Your instructor will be available at the seminar for consultation regarding your questions and the unique needs of your own math program.

Meet Inservice Requirements / Earn State CEUs

Participants of both the Live Online Seminar and those completing the Recorded Version online can receive a certificate of participation that may be used to verify five continuing education hours. In addition, state CEUs are available for both versions of the course. For details, visit www.ber.org/ceus

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:



Recorded Version of the Seminar

Both courses will be video recorded and available to take online at your convenience. You'll have access to the entire course and to the extensive digital resource handbook. Optional CEUs and graduate credit available.

To enroll in either course, see registration form on page 7.



Related On-Demand Online Courses

A related On Demand Video-Based Online Learning course, *Strategies for Promoting a GROWTH MINDSET to Increase Students' Perseverance, Engagement and Success in Your MATH Classroom*, for Grades 6-12, available for immediate registration.

To enroll, visit www.ber.org/online

Making Best Use of DESMOS to Strengthen Your MATH Instruction (Grades 6-12)

Registration (MD11W1) Leigh Nataro, Instructor

- 1. **February 2, 2021** (Start time: 9 AM Pacific)
- 2. **February 4, 2021** (Start time: 9 AM Eastern)
- 3. **February 9, 2021** (Start time: 9 AM Central)
- 4. **February 11, 2021** (Start time: 9 AM Mountain)
—or—
- 5. **I'd like to order the recorded version of Leigh's seminar**

Registration (MDD1W1) Nolan Doyle, Instructor

- 6. **March 4, 2021** (Start time: 9 AM Eastern)
- 7. **March 5, 2021** (Start time: 9 AM Pacific)
- 8. **March 25, 2021** (Start time: 9 AM Central)
- 9. **March 26, 2021** (Start time: 9 AM Eastern)
—or—
- 10. **I'd like to order the recorded version of Nolan's seminar**

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

List additional registrants on a copy of this form

SCHOOL NAME	
<hr/>	
SCHOOL MAILING ADDRESS	
<hr/>	
CITY & STATE	ZIP CODE
<hr/>	
SCHOOL PHONE NUMBER	HOME PHONE NUMBER
()	()

Registration confirmations and login details are sent via e-mail

E-MAIL ADDRESS (REQUIRED FOR EACH REGISTRANT)	
<hr/>	
HOME MAILING ADDRESS	
<hr/>	
CITY & STATE	ZIP CODE
<hr/>	

IMPORTANT – PRIORITY ID CODE: EMD11W1

METHOD OF PAYMENT – Team Discount Available

The registration fee is \$279 per person, for teams of three or more registering at the same time, the fee is \$259 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)

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 5:30 am - 4 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 Live Online seminars start times are described on the cover
- Check-in 15 minutes prior to the seminar
- Live Online seminars are five hours in length plus breaks
- Registrants will receive login information by email four days before their Live Online seminar

Fee

The registration fee is \$279 per person, \$259 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.

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





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Research

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An outstanding one-day Live Online Seminar

Includes an extensive Resource Handbook

Can't Attend? A Recorded Version is available
to use online at your convenience

Strengthen MATH Instruction With FREE DESMOS (Grades 6-12)

Practical PD, No Travel

MD11W1 | MDD1W1



Bureau of Education & Research

Making Best Use of DESMOS to Strengthen Your MATH Instruction (Grades 6-12)

Live Online Seminar
or Recorded Version



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Presented by

**Leigh Nataro
Nolan Doyle**

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