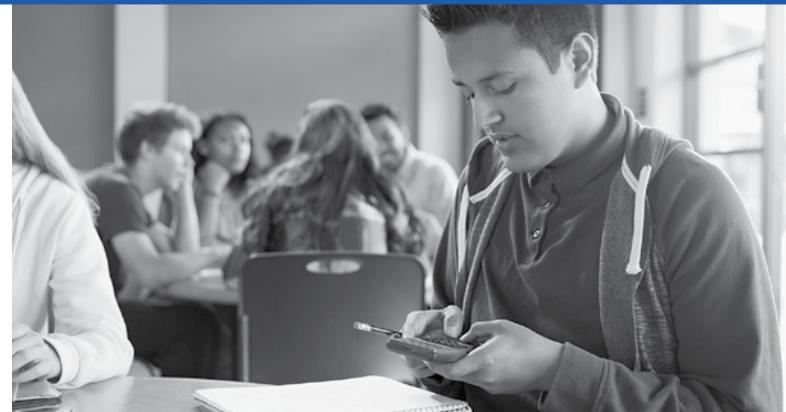


Making Best Use of DESMOS to Strengthen Your MATH Instruction (Grades 6-12)



A Unique One-Day In-Person Seminar or Live Online Seminar
Presented by

Rachel Mane

Outstanding Secondary Math Teacher and Desmos Presenter

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

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 **Desmos resource handbook** and special online access so you can immediately link to the resources presented in this seminar

"Very informative. I'm excited to use this in my classroom."

ANDREW MAYLE, HIGH SCHOOL MATHEMATICS TEACHER

California

Fresno (Clovis) – March 24

Sacramento – March 23

San Jose (Milpitas) – March 25

Massachusetts

Boston (Wakefield) – February 16

New York

Long Island (Plainview) – February 17

Virginia

Richmond (Sandston) – February 15

Roanoke – February 14

Washington

Seattle (Bellevue) – March 22

Spokane – March 21

LIVE ONLINE SEMINAR

February 3

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)

Ten Key Benefits of Attending

*"This was so useful!
I learned some
basic functionality
I didn't know
about and I
learned some
more advanced
functionality
I can start
implementing
right away."*

– TERESA ALFUTH,
MATH TEACHER



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**
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 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. Quickly Adapt Premade Desmos Lessons or Create Your Own**
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!
- 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 time saving 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 Desmos Resource Handbook with Special Online Access to Additional Resources**
You will receive a resource handbook packed with ideas, suggestions and instructions for using Desmos to enhance your math instruction

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
- **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, and more!
- **Valuable tips, shortcuts and ideas** for organizing and sequencing learning to maximize instructional time
- **Activities that move students from concrete to algebraic thinking** and encourage them to predict, test and analyze their thinking throughout the process
- Foundations for crafting online instruction to help **build conceptual understanding, promote investigative approaches, and make connections** between multiple representations

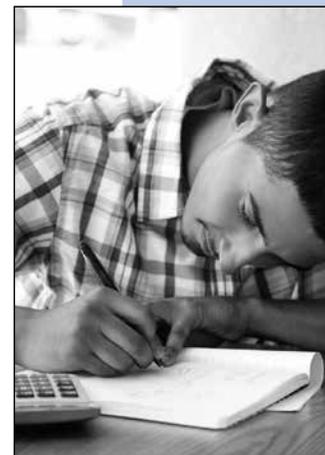


"Everything was shared with excellent pacing and clarity. I have taught for many years and have never had 5 hours of training that has been so rich in relevant content."

– BRAD WEEKS, JR/SR HIGH MATH TEACHER

Practical Ideas and Strategies

This outstanding, **NEW** 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. Experienced secondary mathematics teacher **RACHEL MANE** 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! **You will leave this seminar with numerous practical ideas you can immediately implement to greatly enhance your math instruction.**



A Message From Seminar Leader, Rachel Mane



Uniquely Qualified Instructor

RACHEL MANE is a highly experienced secondary math educator and a frequent presenter at local, state and national seminars, often speaking on best ways to use technology to increase student engagement in the math classroom. Rachel is passionate about equipping fellow secondary math teachers with innovative, practical tools and ideas they can immediately use in their classrooms. Rachel is also passionate about helping educators discover the joy of learning mathematics that can happen when students use Desmos for exploration and creation. Rachel is often publishing blogs and videos on technology and high yield classroom strategies. She is also the author of *Making Best Use of DESMOS to Strengthen Your MATH Instruction*, the extensive resource handbook each participant will receive at the seminar. **Join Rachel for an outstanding day full of specific ways you can get the most out of Desmos to strengthen your grades 6-12 math instruction.**

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 I 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.

I have specifically designed this seminar based on my years as a secondary math teacher. I am excited to share with you how to make best use of FREE Desmos to greatly enhance your math instruction. Harness the power of Desmos 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 me 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 my Desmos handbook, which is packed with practical resources and instructions.

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 I want to show you how you can make the most of Desmos to strengthen your instruction and your students' learning in mathematics.

Sincerely,

Rachel Mane

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

"I am excited to share with you how to make best use of free Desmos to greatly enhance your math instruction ..."

What Your Colleagues Say About Rachel Mane

"This is the type seminar that is worth every penny – and all the time in the world to attend. So much fantastic information and such a great presenter. I rarely give ALL perfect scores on surveys, but this was totally amazing. Very organized and Rachel was very helpful and patient."

– Melanie Carter, Mathematics Teacher

"Rachel was energetic and passionate teaching us about DESMOS. We could sense she loves this platform. The session was very informative and it was a fascinating tour to the world of DESMOS. I'm excited to use these tools introduced today in my future classes."

– Akifumi Iwahashi, Faculty of Mathematics/Director of Academic Logistics

"I found this really valuable! I'm excited to bring the things I learned back to my department."

– Robin Bowman, Math Teacher

"I had previously used DESMOS activities, but now I can see how to put the features into creating my own activities."

Meghan Mattison, Math Teacher

"I had no idea this website was this comprehensive. I learned so much."

– Allison Pittman, Teacher



About BER Seminars

Outstanding Instructors

All programs are led by outstanding, top-rated BER national trainers

Extensive Resource Handbook

You'll receive an extensive digital Resource Handbook full of practical strategies and resources. (For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.)

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 44 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



"GREAT professional development opportunity! I learned so many new things to do in DESMOS with my students to increase engagement."

JAIME GARVER,
MATHEMATICS 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 Resource Handbook

Each participant will receive an extensive digital resource handbook giving you access to countless strategies. The handbook includes:

- Step-by-step guides for using Desmos to build strong conceptual understanding with your students
- 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
- Links to collections of activities that span secondary grade levels and courses

For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.

Consultation Available

Rachel Mane will be available to answer your specific questions and the unique needs of your own program.

Meet Inservice Requirements / Earn State CEUs

Participants of In-Person Seminars, 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 for direct enrollment with University of Massachusetts Global will be available at this program.

Can't Attend?

Other Professional Development Options:



Recorded Version of the Seminar

A video recorded version of this seminar will be 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, see registration form on page 7.



Related On-Demand Online Courses

A related On Demand Video-Based Online Learning course, *Help Your Students Who Struggle with Mathematics: Practical, Successful Strategies*, for Grades 6-12, and *Strategies for Promoting a GROWTH MINDSET to Increase Students' Perseverance, Engagement and Success in Your MATH Classroom*, for Grades 6-12, are available for immediate registration. To enroll, visit www.ber.org/online

For purchases in WA State of Recorded Seminars and On-Demand courses, please add 10.1% sales tax to the total amount.

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

Registration (MD32W1)

- 1. **Boston** (Wakefield), **MA** – February 16, 2022
- 2. **Fresno** (Clovis), **CA** – March 24, 2022
- 3. **Long Island** (Plainview), **NY** – February 17, 2022
- 4. **Richmond** (Sandston), **VA** – February 15, 2022
- 5. **Roanoke**, **VA** – February 14, 2022
- 6. **Sacramento**, **CA** – March 23, 2022
- 7. **San Jose** (Milpitas), **CA** – March 25, 2022
- 8. **Seattle** (Bellevue), **WA** – March 22, 2022
- 9. **Spokane**, **WA** – March 21, 2022
- 10. **LIVE ONLINE:** February 3, 2022 (Start time: 9 AM Eastern)
— or —
- 11. **I'd like to order the recorded version of this seminar**
For purchases in WA State of Recorded Seminars, please add 10.1% sales tax to the total amount.

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	
<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: EMD32W1

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

FIVE EASY WAYS TO REGISTER:

-  **REGISTER ONLINE** at: www.ber.org
-  **EMAIL** this form to: register@ber.org
-  **PHONE** toll-free: **1-800-735-3503**
(Weekdays 5:30 am - 5:30 pm Pacific Time)
-  **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

Program Hours

- All **In-Person** Seminars are scheduled 8:30 a.m. – 3:15 p.m. Check-in is 8:00 a.m. – 8:30 a.m.
- All **Live Online** Seminars are scheduled 9:00 a.m. – 3:30 p.m. 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 \$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 In-Person Seminars, Live Online Seminars or Recorded Seminars.

For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.

Meeting Sites and Hotel Accommodations

Seminars will be held at the following sites:

- Boston: Four Points by Sheraton – Wakefield, (781) 245-9300
- Fresno: Hilton Garden Inn – Clovis, (559) 299-2203
- Long Island: Four Points by Sheraton – Plainview, (516) 694-6500
- Richmond: DoubleTree – Airport, (804) 236-1111
- Roanoke: Holiday Inn Tanglewood, (540) 774-4400
- Sacramento: Holiday Inn Express – NE Cal Expo, (916) 923-1100
- San Jose: Sonesta Silicon Valley – Milpitas, (408) 943-9080
- Seattle: Residence Inn – Bellevue, (425) 637-8500
- Spokane: Hampton Inn – Airport, (509) 747-1100

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 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.



915 118th Avenue SE
 PO Box 96068
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Making Best Use of DESMOS to Strengthen Your MATH Instruction (Grades 6-12)



Strengthen MATH Instruction Using DESMOS (Grades 6-12)

**An outstanding one-day In-Person Seminar
 or Live Online Seminar**

Includes an extensive Resource Handbook

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

MD32W1



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

**In-Person Seminar,
 Live Online Seminar,
 Recorded Version**



**A Unique One-Day
 In-Person Seminar or Live Online Seminar
 (Also available as a Recorded Online Version
 to Use at Your Convenience)**

Presented by

Rachel Mane
 Outstanding Secondary Math Teacher
 and Desmos Presenter

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