

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

Ashley Taplin

Outstanding Secondary Math Teacher and 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 – 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 Desmos resource handbook and special online access so you can immediately link to the resources presented in this seminar

Connecticut

Hartford (Bristol) – January 5

New Hampshire

Manchester (Bedford) – January 7

New York

Newburgh (Fishkill) – January 4

Rhode Island

Providence (Warwick) – January 6

LIVE ONLINE SEMINAR

February 4

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 a phenomenal day. Ashley did a really great job making this an accessible and implementable seminar."

– MICHAEL LAUGHLIN,
MATHEMATICS FACULTY



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. 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. Learn Ways to Build Vocabulary through Collaboration and Communication**
Engage in a collaborative game-like feature of Desmos that builds students' vocabulary and language ... Experience it yourself and learn how to create your own for your students
- 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 – whether you are teaching at school or online

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
- **Activities that move students from concrete to algebraic thinking** and encourage them to predict, test and analyze their thinking throughout the process



"Learned so much! I knew very little about Desmos going into this, and I'm leaving with a lot of knowledge that I will be able to use in the classroom. It was very beneficial to see Ashley walk through everything. I'm excited to apply what I learned in my classroom."

– BRITANNY YIKE, 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 **ASHLEY TAPLIN** 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, or looking to level up your knowledge, 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 Seminar Leader, Ashley Taplin



Uniquely Qualified Instructor

ASHLEY TAPLIN is a highly experienced secondary math educator and presenter. She is 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. Ashley is passionate about equipping fellow secondary math teachers with innovative, practical tools and ideas they can immediately use in their classrooms. Ashley is also passionate about helping educators discover the joy of learning mathematics that can happen when students use Desmos for exploration and creation. Ashley is often a featured author and blogger on innovative sites such as Edutopia. She is also the author of *Making Best Use of DESMOS to Strengthen Your MATH Instruction (Grades 6-12)*, the extensive resource handbook each participant will receive at the seminar. **Join Ashley 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 live online 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 – whether you are teaching at school or online. 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,

Ashley Taplin

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

What Your Colleagues Say About Ashley Taplin

"Wonderful presentation and awesome use of my time. I learned a great deal and am very excited to put what I learned to use and to explore further into the world of DESMOS!"

Kathy Mangelsdorf, Teacher

"This was enjoyable, helpful and full of information. I actually didn't want it to end."

Ashley is a great teacher and she is so knowledgeable. Wonderful workshop!"

Diana Hannah, Teacher

"I had no idea Desmos had so many amazing functions! I learned a lot. Very useful overview, and great instructions on how to find more learning materials."

Alyson Lee, Science and Math Faculty

"I really appreciate the many resources that Ashley provided so that I can continue learning independently."

Kathy Hawes, Math Teacher

"Very knowledgeable and adaptive presenter. Ashley did a great job keeping things moving but still answering questions and meeting needs of those attending."

Taryn Owens, Math 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



"Very useful,
practical
information!"

HOLLY DOWLING,
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 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
- 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.

Share Ideas with Other Educators

This seminar provides a wonderful opportunity for participants to share ideas with other educators interested in making best use of DESMOS to strengthen math instruction.

Meet Inservice Requirements / Earn State CEUs

Participants of In-Person and 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

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

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

Two related On Demand Video-Based Online Learning courses, *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

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

Registration (MD22W1)

- 1. **Hartford** (Bristol), **CT** – January 5, 2022
- 2. **Manchester** (Bedford), **NH** – January 7, 2022
- 3. **Newburgh** (Fishkill), **NY** – January 4, 2022
- 4. **Providence** (Warwick), **RI** – January 6, 2022
- 5. **LIVE ONLINE:** February 4, 2022 (Start time: 9 AM Eastern)
— or —
- 6. **I'd like to order the recorded version of this seminar**

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	
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CITY & STATE	ZIP CODE
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SCHOOL PHONE NUMBER	HOME PHONE NUMBER
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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: EMD22W1

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


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Billing Zip Code: _____ 3 Digit CVV Code: _____
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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:

- Hartford: DoubleTree – Bristol, (860) 589-7766
- Manchester: Country Inn & Suites – Bedford, (603) 666-4600
- Newburgh: Residence Inn – Fishkill, (845) 896-7200
- Providence: Hilton Garden Inn – Airport, (401) 734-9600

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.

Further Questions

Call the Bureau of Education & Research (800) 735-3503 or visit us online at www.ber.org

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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Includes an extensive Resource Handbook

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MD22W1



Bureau of Education & Research

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**In-Person Seminar,
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