

# Strengthening Your Students' MATH Learning and Engagement with **DESMOS ACTIVITY BUILDER** (Grades 6-12)



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

## **Andy Malbouef**

Outstanding Mathematics 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

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**Practical ways** to enhance your math instruction using **FREE Desmos Activity Builder**

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**Innovative ways** to create and use Computation Layer in grades 6-12 math lessons

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**Classroom-tested lessons and tips** to increase students' levels of mathematical understanding

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**Receive an extensive Desmos Activity Builder Digital Resource Handbook** and online access to videos, how-to guides, links and resources presented in the seminar

### **Arizona**

**Phoenix – January 30**

### **California**

**Anaheim (Garden Grove) – January 31**

**Pasadena (Arcadia) – February 1**

### **Oregon**

**Portland – February 2**

### **Washington**

**Seattle (Bellevue) – February 3**

### **LIVE ONLINE SEMINAR**

**February 9**

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

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

*"Awesome content.  
Really applicable  
material and  
up to date with  
the current  
educational setting."*

—KRISTEN DILLON,  
MATH TEACHER



## Who Should Attend

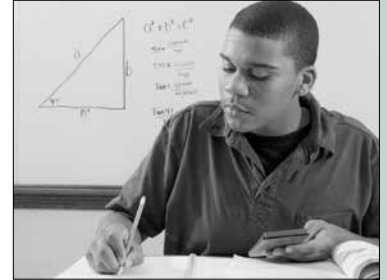
Grades 6-12 Mathematics Teachers; Teachers of General Math, Algebra, Geometry, Pre-Calculus, Calculus, Statistics; Math Curriculum Coordinators and Administrators

- 1. Strengthen Your Math Instruction with FREE Desmos Activity Builder Lessons**  
Learn what every middle and high school math teacher needs to know about fully utilizing Desmos Activity Builder lessons in their math instruction
- 2. Increase Student Motivation**  
Explore engaging activities that spark student interest through curiosity and exploration of key math concepts
- 3. Utilize Lessons with Built-in Computation Layer to Add Interactivity and Increase Feedback**  
Computation Layer is the tissue that connects exploratory components in an activity ... Discover how this can be used to deepen student understanding
- 4. Create Your Own Computation Layer**  
Learn basic Computation Layer implementation, a tool to help you boost your students' learning
- 5. Learn How to Create Lessons to Fit Your Specific Curriculum Needs**  
Not finding activities specific to your desired lesson? Learn how to create your own Activity Builder lessons to fit your specific math curriculum
- 6. Strengthen Your Students' Math Vocabulary**  
Get students using the math vocabulary they are expected to know using partner Polygraphs and prompting their written responses in Activity Builder using simple Computation Layer
- 7. Help Your Students Develop a Growth Mindset for Math Learning**  
Design opening screens to allow students to connect with prior knowledge, build into newer concepts and finish with challenges to strengthen mathematical understanding
- 8. Use Activity Builder Features to Explore Key Math Concepts**  
Discover the benefits of multiple modes of representation, with and without the use of Computation Layer
- 9. Utilize Activity Builder Cohesively with Google Classroom to Make Your Math Instruction More Effective**  
Make your workflow and organization more efficient by directly tying Activity Builder to your Google Classroom ... Here's how
- 10. Receive an Extensive Activity Builder Digital Handbook and Online Access to Videos, How-to Guides, and Links to Resources Presented in the Seminar**  
You'll receive an extensive digital resource handbook packed with ideas, suggestions, and step-by-step instructions for using Activity Builder to enhance your math instruction

# Outstanding Strategies You Can Use Immediately

## What You Will Learn ...

- **Practical strategies** for making best use of Desmos Activity Builder to enhance math instruction and student engagement
- **How to access premade Desmos Activity Builder lessons** you can easily incorporate into your own curriculum
- **How to copy, modify, and use Activity Builder lessons** with Computation Layer
- How to **create slides using your own Computation Layer, developed in a build-along process**
- **Classroom-tested Activity Builder lessons** for all levels of math instruction
- **Innovative ways** to utilize Activity Builder cohesively with Google Classroom to make your instruction more effective
- **Proven ways to find, create, and share collections** of Activity Builder lessons
- **Timesaving tips** for incorporating multiple component types, including dynamic graphs, tables, sketches, geometry, ordered lists, and more
- **How to create your own Desmos Activity Builder lessons** to fit specific needs
- **How to help your students create a collaborative mindset** through Activity Builder interaction
- **Ways to use interpretive feedback**, allowing students to evaluate their responses



*"This was awesome! It's going to work very well in my classroom!"*

– JENNIFER KELLAM, TEACHER OF MATH INTERVENTION

## Practical Ideas and Strategies

This seminar is specially designed for secondary mathematics teachers who want to more deeply engage their students with visualization and conceptualization of key math concepts using free Desmos Activity Builder. Experienced secondary level math teacher, **ANDY MALBOUEF** will share practical, classroom-proven ways to build greater conceptual understanding using the Desmos Activity Builder platform. A strong emphasis will be placed on using Computation Layer in engaging activities, and also helping participants create their own Computation Layer through several build-along activities. Whether you are new to using Activity Builder, an experienced user or anywhere in between, you'll leave this seminar with numerous practical ideas you can use immediately to enhance your math instruction. ***This unique seminar will focus exclusively on Desmos Activity Builder and will equip participants with many ideas they will be able to use immediately.***



# A Message From Seminar Leader, Andy Malbouef



## Uniquely Qualified Instructor

**ANDY MALBOUEF** is an experienced secondary math educator. With more than 31 years of math teaching experience at the secondary level Andy knows what works and what doesn't. An enthusiastic and engaging presenter, Andy is passionate about exploring new ways to help students conceptualize mathematical concepts, and believes technology opens doors to new possibilities. Andy is the author of *Strengthening Your Students' MATH Learning and Engagement with Desmos Activity Builder*, the extensive digital resource handbook each participant will receive at the seminar. He is excited to help equip fellow math teachers with practical tools they can immediately employ in the secondary math classroom.

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 your peers if their answers are 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 Activity Builder is that it has the power to greatly enhance our math instruction and help us address these and so many other challenges we face.

I've specifically designed this seminar based on my 31 years as a secondary math teacher. We will only focus on Desmos Activity Builder, with a healthy portion of the seminar devoted to Computation Layer, making this a very unique PD opportunity. This won't be theoretical: I practice what I preach, and you will experience Activity Builder from a math teacher's perspective. I'm excited to share with you how to make best use of free Desmos Activity Builder lessons to greatly enhance your math instruction.

I invite you to join me for a day filled with practical ways to increase your students' understanding of key math concepts using Desmos Activity Builder. I look forward to meeting you at the seminar and exploring together how we can significantly increase student engagement using Desmos Activity Builder.

Sincerely,

Andy Malbouef

P.S. You will receive my Desmos Activity Builder digital resource handbook **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!

*"This won't be theoretical: I practice what I preach, and you will experience Activity Builder from a math teacher's perspective."*

# What Your Colleagues Say About Andy Malbouef

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*"This was everything I had hoped it would be. I knew Desmos Activity builder, but with an understanding of Computation Layer I am ready to make some amazing dynamic activities. **Andy is exceptionally knowledgeable and wonderful presenter.**"*

– Matthew Leman, Math Teacher/Dept Leader

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*"Andy was **very informative and met all the attendees at their level**, showing patience and a willingness to help."*

– Ann Search, Math Teacher

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*"This seminar was extremely helpful. **This is definitely something I can use in my class** and will be sharing with my colleagues."*

– Stephanie Zapisek, Teacher

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*"**Andy was very thorough, helpful, and patient.** He clearly is knowledgeable and passionate about the Desmos Activity Builder platform."*

– Mary Evans, Math Teacher

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*"An enjoyable PD with loads of information to digest. I was very happy to feel **I learned a tremendous amount.**"*

– Evan Scott, Math 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.

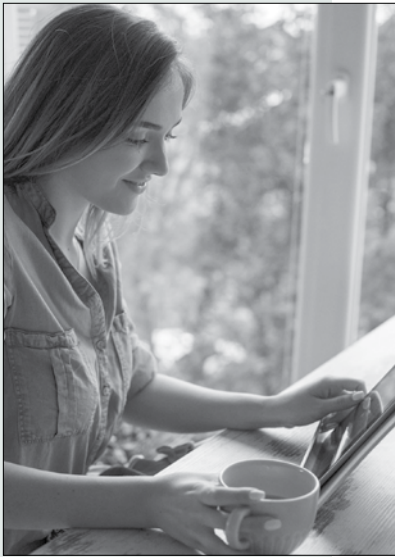
### Highly Interactive

You'll be able to ask questions, consult with the instructor, and share ideas with other participants.

### Program Guarantee

As we have for 45 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



"Excellent presentation and resources. As a more experienced user, I am walking away with resources I can use immediately."

KATHLEEN YEAGER, 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](http://www.ber.org/onsite) or call 877-857-8964 to speak to one of our On-Site Training Consultants.

## Extensive Activity Builder Digital Resource Handbook

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

- Step-by-step instructions for using all elements of the Desmos Activity Builder platform
- Screenshots showing specific parts of the teacher dashboard with tips on maximizing student learning
- Suggested strategies for creating your own activities from scratch to meet specific needs
- Multiple examples of Computation Layer concepts to spice up your activities
- Links to other resources and social media connections to further your professional development

**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

Andy Malbouef will be available to answer your specific questions and the unique needs of your own math 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](http://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](http://www.ber.org/credit)

## 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 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](http://www.ber.org/credit)



#### 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](http://www.ber.org/online)

# Strengthening Your Students' MATH Learning and Engagement with DESMOS ACTIVITY BUILDER (Grades 6-12)

## Registration (MD53W1)

- 1. Anaheim** (Garden Grove), **CA** – January 31, 2023
- 2. Pasadena** (Arcadia), **CA** – February 1, 2023
- 3. Phoenix, AZ** – January 30, 2023
- 4. Portland, OR** – February 2, 2023
- 5. Seattle** (Bellevue), **WA** – February 3, 2023
- 6. LIVE ONLINE:** February 9, 2023 (Start time: 9 AM Pacific)
- or—
- 7. 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 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/>	<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/>	<hr/>

**IMPORTANT – PRIORITY ID CODE: EMD53W1**

## 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
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Please print name as it appears on card                      Signature (required for credit card purchases)

## FIVE EASY WAYS TO REGISTER:

-  **REGISTER ONLINE** at: [www.ber.org](http://www.ber.org)
-  **EMAIL this form to:** [register@ber.org](mailto: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**  
915 118th Avenue SE • PO Box 96068  
Bellevue, WA 98009-9668

## Program Hours

- All **In-Person** Seminars are scheduled 8:30 AM – 3:15 PM  
Check-in is 8:00 AM – 8:30 AM
- 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 \$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:

- Anaheim: Marriott Suites – Garden Grove, (714) 750-1000
- Pasadena: Embassy Suites – Arcadia, (626) 445-8525
- Phoenix: Sheraton Crescent Hotel, (602) 943-8200
- Portland: Hilton Garden Inn – Airport, (503) 255-8600
- Seattle: Residence Inn – Bellevue, (425) 637-8500

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.

## Further Questions

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

# Strengthening Your Students' MATH Learning and Engagement with DESMOS ACTIVITY BUILDER (Grades 6-12)



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

Includes an extensive digital Resource Handbook

Can't Attend Live? Order the Recorded Version to access online at your convenience



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# Increase MATH Learning with Desmos Activity Builder (Grades 6-12)

MD53W1

## Strengthening Your Students' MATH Learning and Engagement with DESMOS ACTIVITY BUILDER (Grades 6-12)



Bureau of Education & Research

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



A Unique One-Day In-Person Seminar or Live Online Seminar  
(Or Order the Recorded Version to Access Online at Your Convenience)

Presented by

### Andy Malbouef

Outstanding Mathematics Teacher and Presenter

Practical ways to enhance your math instruction using **FREE Desmos Activity Builder**

Innovative ways to create and use Computation Layer in grades 6-12 math lessons

Classroom-tested lessons and tips to increase students' levels of mathematical understanding

Receive an extensive **Desmos Activity Builder Digital Resource Handbook** and online access to videos, how-to guides, links and resources presented in the seminar