Tools and Strategies
for Engaging Developmental Mathematics Students
in Online and Virtual Environments
Welcome!
Let’s get to know each other while we wait to start the webinar

Please answer the questions below in the “Chat,” located at the bottom of your screen.
❖ switch from panelists to all panelists and attendees

Where are you from? and what attracted you to enroll in this webinar?
Tools and Strategies for Engaging Developmental Mathematics Students in Online and Virtual Environments

Presenters
Christina Cobb
Kathryn Van Wagoner

Sponsored by the National Math Summit
Webinar Recording Policy

❖ AMATYC is recording the webinar

❖ AMATYC retains the right to show it again and to distribute it.

❖ By participating, you are agreeing that your contributions become part of the recording
Housekeeping

❖ Please make sure that you are muted.
❖ Open the chat by clicking on chat at the bottom of your screen
❖ Click on the arrow to switch from panelists to all panelists and attendees so that everyone will be able to view your comments
❖ We will have limited time to address questions. Type your question in the chat. We will save the chat and be able to address questions not answered during the webinar at a later date.
❖ We expect to have approximately 100 attendees in this webinar. Be open to new ideas and kind in their comments to others.
Zoom Tools

Christina Cobb
Middle Tennessee State University
Murfreesboro, TN.
Teaching Effectively with Zoom: A practical guide to engage your students and help them learn

Paperback – July 15, 2020

by Dan Levy (Author)

4.5 out of 5 stars – 75 ratings

In early 2020, because of COVID-19, many colleges and schools around the world closed, and many teachers, instructors, and faculty members had to learn how to teach online in a hurry. This book takes a step back, and focuses on helping educators teach effective live online sessions with Zoom. Dan Levy offers practical pedagogical advice for educators on questions such as: Why and how to use breakout rooms? Should you use chat, and if so, how? How do you build community in a virtual classroom? The book is based on the author’s experience teaching online, observations of several colleagues teaching online at Harvard University, research-based principles of effective
101 Ways to Make Learning Active Beyond the Classroom (Active Training Series) Paperback – April 27, 2015

by Elaine Biech  (Author)

11 ratings

Fresh, creative strategies guaranteed to enliven online training

101 Ways to Make Learning Active Beyond the Classroom provides proven, practical strategies, activities, and tips for those tasked with facilitating training in any subject area among alternative settings. Based on the best-selling Active Training approach, these methods have been designed by recognized experts, and are guaranteed to enliven any learning event. Readers will find a toolkit of ready-to-use exercises and tips for organizing, conducting, and delivering active learning, in alternative settings on the job or around the world. The book is organized in a way that allows
Zoom

- Tool for engagement
- Icebreaker
- Quick evaluation
- Cooperative group work
Meeting Setting

**Meeting**

**Recording**

**Telephone**

### Security

**Schedule Meeting**
- **In Meeting (Basic)**
- **In Meeting (Advanced)**

**Email Notification**

**Other**

### Waiting Room

- **Waiting Room**
  - When participants join a meeting, place them in a waiting room and require the host to admit them individually. Enabling the waiting room automatically disables the setting for allowing participants to join before host.

- **Waiting Room Options**
  - The options you select here apply to meetings hosted by users who turned 'Waiting Room' on.
  - Everyone will go in the waiting room

- **Edit Options**
  - **Customize Waiting Room**

### Require a passcode when scheduling new meetings

- A passcode will be generated when scheduling a meeting and participants require.
Breakout Rooms
Breakout Rooms
During your meeting
Polls in Zoom
Polls in Zoom
Polls in Zoom

*Multiple choice means more than one correct answer on zoom polls.
Polls in Zoom

Your turn…
Web Tools

Kathryn Van Wagoner
Weber State University
Ogden, Utah
Rationale for Activities

- Community
- Learning
- Variety
- Fun
Ice Breaker with a Purpose

Share a Photo

- Each student takes a turn sharing a photo (G-rated) with 30 sec explanation.
- Instruct students to prepare by having a photo open on their device ready to share.
- Provides practice for using screen sharing.
Ice Breaker with a Purpose

**Show and Tell**

- Display a slide with instructions to find an object to share.
- Student unmutes audio and video and shares object.
- Provides practice for speaking to the group.
EquatIO

Chrome extension

• Facilitates writing mathematics in a Google Document

• Search “Equatio extension” to find the download
Disclaimer

We are going to experience multiple supplemental learning programs. They should be accessible to most, but if your technology doesn’t cooperate, we can’t take time to troubleshoot.
Padlet

Digital Bulletin Board
- Collaborative Notes
- Bell-ringer Activity
- Exit Ticket
- Brainstorming
- Image sharing
Your Turn

1. Click on this link (I’ll put it in the chat)
https://padlet.com/kevanwagoner/ikkjhcissgben04e

2. Double-click on the wall to post:
   • Write your name for the title
   • Share text, photo, or video,
   • Also, can drag and drop, copy/paste

3. Comment on some posts

4. Vote for a post.
Kahoot!

Classroom Response System

- Formative Assessment
- In-class Practice
- Digital Quiz
- Students Create and Learn
- Individual Learning
Your Turn

Go to Kahoot.it or use the Kahoot! app. (On a computer, show Zoom window and Kahoot side-by-side)

Enter Game PIN and a nickname

When the game begins select the color that matches the correct answer.
Desmos

Graphing Calculator +
• Student Explorations
• Instructor Demonstrations
• Interactive Lessons
Desmos Activities

When you are the teacher go to:
teacher.desmos.com
to search for activities.

But right now, you are the student....
Your Turn

Hey, students!

Go to student.desmos.com and type in:

5UG 2GS
Flipgrid

Video Discussion Tool

- Ice Breaker
- Math Discussion
- Formative Assessment
90 Seconds About You

Make and upload a 90 Second Video about you.
Tell your life story in 90 seconds
or
Tell one or a few things about yourself.

Join Code: cs56ea2a7
<table>
<thead>
<tr>
<th>User</th>
<th>Views</th>
<th>Date</th>
<th>Comments</th>
<th>Status</th>
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Your Turn

1. Click on this link to join our Flipgrid Topic
   https://flipgrid.com/94753ad2
   (I'll put it in the chat)

2. Watch the brief intro video

3. Make a very short Flipgrid response:
   Tell us something.
   Show us something.
   Write on your handheld whiteboard. OR
   In Effects, choose a whiteboard and draw.

4. Make a video comment response
Search YouTube for How-to

Search:
“How to use _____ in Zoom.”
“Math Assessment with _______”
“How to teach remotely with _______”
“How to create ________”

Also, check out:
JamBoard
NearPod
Socrative ... and more!
Questions?
Upcoming 4th National Mathematics Summit
June 14 & 15, 2021
Westgate Resort and Casino
Las Vegas, NV

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Planning Leadership Team
Annette Cook, Paul Nolting, Julie Phelps and Nancy Sattler

Steering Committee
Christina Cobb and Denise Lujan (NOSS)
Rochelle Beatty, Kathryn Van Wagoner, and Laura Watkins (AMATYC)
Connie Richardson and Paula Talley (Charles A. Dana Center)
Ann Edwards (Carnegie Math Pathways/WestEd)
April Strom (MAA)
The 4th National Math Summit begins at 1:00 p.m. on Monday, June 14th, and features keynote speaker, Jenna Carpenter, concurrent sessions, and more. The program will conclude Tuesday, June 15th 5:00 p.m. This is a pre-conference to the NOSS 2021 conference and requires separate registration (https://thenoss.org/Math-Summit/)

The Math Summit is sponsored by AMATYC, NOSS, and Paul Nolting. Supporting partners include: Charles A. Dana Center, Carnegie Math Pathways/WestEd, and the MAA
September 18, 2 p.m. ET
Tools and Strategies for Engaging Developmental Mathematics Students in Online and Virtual Environments
Presenters: Christina Cobb and Kathryn Van Wagoner

October 21, 2 p.m. ET
Advancing equity in mathematics pathways in the era of the pandemic
Presenters: Connie Richardson, Ann Edwards & Helen Burn

November: Professional Development & Department Issues in a Pandemic
January: Student Engagement