

13:33:24 From Maria Andersen : "Set of Me" (picture here)  
<https://busynessgirl.com/spicing-up-those-introduction-posts/>

13:34:17 From Stacie Kyhn : <https://icebreakers.io> has some interesting questions as well.

13:34:33 From Nancy Sattler : Thanks for sharing Stacie!

13:37:42 From Ellen Eischen to All panelists :  
<https://pages.uoregon.edu/eeischen/CreativityCounts/resources/DiscussionBoardIntroductionScreenShot.png>

13:38:03 From Ellen Eischen to All panelists :  
<http://www.ams.org/publicoutreach/math-imagery/math-imagery>

13:38:25 From YP Ma : Did I miss the link? I am a little confused.

13:38:34 From Ana Jimenez to All panelists : Ellen? Did you sent to ALL panelists?

13:38:35 From Maria Andersen :  
<https://pages.uoregon.edu/eeischen/CreativityCounts/resources/DiscussionBoardIntroductionScreenShot.png><http://www.ams.org/publicoutreach/math-imagery/math-imagery>

13:38:39 From YP Ma : Thanks.

13:39:07 From D K to All panelists : Someone's saying there's a cap of 100 that we've reached. Can someone at AMATYC check on this?

13:39:28 From Pat Riley - Webinar Coordinator to D K and all panelists : We are aware of the issue.

13:39:31 From Beverly Vance : I saw someone on Twitter mention that they can't get into this webinar due to the 100-person cap

13:39:47 From Beverly Vance : Is this streamed on YouTube or elsewhere?

13:40:03 From D K : We saw this and know about the problem.

13:40:11 From Nancy Sattler : We can have more than 100 students it should not be any issue

13:40:23 From Pat Riley - Webinar Coordinator : If you know of anyone who is not able to get in, please have them email me at [patrick.riley@kctcs.edu](mailto:patrick.riley@kctcs.edu) and I will talk to them. Thanks!

13:42:51 From Maria Andersen : Soooo important that they SEE you

13:44:41 From Haynes Miller : Learn to look at the camera while speaking.

13:45:39 From Laura Watkins : The AMATYC office confirmed a 500 attendee limit for this webinar and is trying to work this out.

13:45:44 From Nancy Sattler : That is so important Haynes!

13:45:57 From Nancy Sattler : Thanks Laura!

13:46:00 From Maria Andersen : Pro tip: If you don't like the way you look on camera, 1) make sure there is natural light on your face and 2) make sure the camera is slightly above your head (so that it points down on you slightly)

13:46:10 From Raluca Rosca to All panelists : @Paula TAlley -- how do you formulate the 'share about your mathematical background'?

13:47:38 From Maria Andersen : — favorite type of word problem —

13:47:41 From Ellen Veomett : related rates, cutting a line to form a circle and a square

13:47:41 From Katrina Johnson : Related rates

13:47:41 From Beverly Vance : Volume

13:47:41 From O'Neill Kingston, Clarke U (he/his) : I love cars approaching stop signs!

13:47:41 From Jennifer Ganowsky to All panelists : Realistic and meaningful

13:47:41 From Stacie Kyhn : alcohol solution problems  
 13:47:41 From Carl Hammarsten : "Real world" stats problems  
 13:47:41 From Bori Mazzag : Related rates problems  
 13:47:41 From J.Lyn Miller : Clue problems - many characteristics are listed, and an item  
 13:47:41 From Pat Riley - Webinar Coordinator : Newton's Law Of Cooling  
 13:47:41 From D K : Something straight from the news.  
 13:47:41 From Sylvia San Pedro : exponential growth and/or decay  
 13:47:41 From Nancy Sattler : finance problems  
 13:47:41 From Julie Gunkelman : I use this and love it  
 13:47:41 From Gretchen Ehlers : Covid-19 for exponential growth  
 13:47:41 From Tonia Faulling : Mixture  
 13:47:41 From Dylan Poulsen : Model rocket with DEs  
 13:47:41 From Angela Thompson to All panelists : Physics: "imagine a sphere...."  
 13:47:41 From Sandy Gokey : Related rates  
 13:47:41 From Laura Watkins : projectile motion  
 13:47:41 From Julie Chesser : percents  
 13:47:41 From Nancy Woller : Exponential growth problems  
 13:47:41 From Ilknur Erbas-White : rawing against and with current  
 13:47:41 From Isabel Darcy : Spring force DE  
 13:47:41 From Marie Jameson : Related rates!  
 13:47:41 From Beverly Vance : Exponential growth and decay problems  
 13:47:42 From Liana Erstenyuk to All panelists : Interest problem  
 13:47:42 From Sommer Gentry : bayes rule and conditional probability for disease testing  
 13:47:42 From Veronica Baker : Mean Value Theorem with speed traps  
 13:47:42 From Mary Emma Richardson : Distance  
 13:47:42 From Barbara Giunti : Calabour  
 13:47:42 From Michelle Younker : Ladder problems for related rates  
 13:47:43 From Betty Weiss : Area of a pen  
 13:47:43 From Erica Shannon : The ladder sliding down the wall  
 13:47:43 From Rebekah Yates : epsilon-delta bolt factory problems in real anlaysis  
 13:47:44 From April Strom : Tesla Phantom Drain (exponential decay)  
 13:47:45 From Mark Colgan : open ended  
 13:47:52 From Ana Jimenez : Problems that don't have a wrong answer... What would you do differently this quarter?  
 13:48:01 From Violeta Kovacev-Nikolic to All panelists : Modeling population growth in DEs using phase plots  
 13:48:41 From BILL MCELROY : Division of fractions story problems where both the divisor and dividend are fractions  
 13:48:46 From D K : Also heard this called a Chat Blast.  
 13:49:39 From Paula Talley : @Raluca - I have them tell me about their past math experience, when the last time they took a math class, their attitude towards mathematics, and if they have math anxiety. They also have the option to share some things to me personally.  
 13:50:12 From Stacie Kyhn : If connectivity in the session is dodgy, a shared document might work better. I like using interactive powerpoints, but can be done with other documents.

13:50:52 From Debbie Yuster : @Maria, do you ever have students snap a pic of their whiteboards to include in a group Google Doc? Or are they each working on an individual copy of the problem?

13:51:08 From YP Ma : "Think first" is such a good suggestion. Thanks Maria.

13:51:54 From Maria Andersen : @Debbie Those are great ideas! I tend to use the whiteboards as a safe space to try and make mistakes.

13:52:04 From Maria Andersen : I often use Google Docs to summarize findings

13:53:42 From Ellen Veomett : Ellen: I'd \*love\* to hear the techniques from improv theater

13:54:08 From Raluca Rosca to All panelists : ^same as Ellen V.

13:55:10 From Maria Andersen : My F2F teaching is 500% better for having been an online instructor too.

13:55:19 From Ellen Eischen : Hi, Ellen! Okay, I will try to integrate this into my next answers or otherwise I'll stick around at the end to discuss these.

13:56:30 From Maria Andersen : Breakout rooms for group discussion are so much faster and "cleaner" than in-person group discussions (so much time is lost as students decide who they will group with and as you try to get their attention back)

13:56:46 From April Strom : Pivoting to online/remote teaching has caused me (a seasoned instructor) to reflect much more carefully on my philosophy of teaching and the purposes of my activities, assignments, assessments, etc. I think this has been a very good exercise that most of us are experiencing right now.

13:56:47 From Ellen Eischen :  
<https://pages.uoregon.edu/eeischen/CreativityCounts/>

13:56:59 From Ellen Eischen :  
<https://pages.uoregon.edu/eeischen/CreativityCounts/resources/MathTopicIdeasForMuseumProjects.pdf>

13:57:01 From Maria Andersen : Right on April!

13:57:44 From Mark Earley : I had the same experience April!! So many reflections and modifications are taking place in my classes right now

13:58:10 From Bori Mazzag to All panelists : I apologize - I have another meeting to attend. This has been a very enjoyable and really valuable webinar so far - I wish I could stay! I will certainly watch the recording. Thank you so much!

13:58:15 From Maria Andersen : Educators have always worked best under the pressure of an unavoidable deadline :)

13:58:52 From Maria Andersen : (How many times are you building the presentation the night before?)

13:59:12 From Sylvia San Pedro : too many!

13:59:36 From April Strom : @Maria, yes! All.the.time. Building and tweaking, building and tweaking..

13:59:52 From Rebekah Yates : I found breakout rooms to be significantly slower than in person groups last semester---slower in the sense of getting going once they were in the rooms and slower about actually talking to each other. Hoping to make some changes this semester to assist with that!

14:00:49 From Debbie Yuster : @Rebekah what changes will you make? This will be my first time doing breakout rooms so I'd appreciate tips.

14:01:11 From April Strom : @Rebekah, me too! So, I'm now using google jamboard that's pre-populated with a task that they have to do. I had success with this over the summer.

14:01:22 From YP Ma : @Debbie, I felt the same way. Breakout room discussion takes much longer...

14:01:46 From Maria Andersen : I think one thing Ellen said is KEY to group projects - give them time in the Remote Learning environment to work in breakout rooms (it might be their only synchronous time together)

14:01:53 From D K : @Debbie - I made extensive use of Google Sheets - with one tab for each group. There was a crowdsourcing effort to do all the activities from Matt Boelkins' Active Calculus this way.

14:02:03 From April Strom : Students go to Zoom breakouts, access their group's jamboard, then they get right to work.

14:02:24 From Maria Andersen : @Rebekah - the "think" prior to the breakout room is KEY - and only send them to breakout rooms if there is disagreement :)

14:02:33 From Paula Talley : @April - I just used jam board for the first time, and it was amazing

14:02:38 From Beverly Vance : (Hi Rebekah!) I also find breakout rooms much slower in terms of setup time etc. I miss being able to have groups talk for just a minute about a minor point of confusion.

14:03:04 From Sommer Gentry : Are there discussion boards in Google classroom? I've never used them before

14:03:06 From Maria Andersen : Okay, somewhat platform dependent too - Zoom makes it really easy to do them, Teams and Google Meet are quite hard

14:03:18 From Maria Andersen : ^ for breakout rooms

14:03:18 From Debbie Yuster : How do your students write on the Jamboards if they don't have a stylus? This is my big concern. I may try Maria's whiteboards and have them upload pics?

14:03:46 From Betty Weiss : Maybe a shorter discussion like Beverly mentioned could be done in the chat.

14:03:53 From Rebekah Yates : Still working on lots of ideas, but considering different options for shared whiteboards so I can monitor what's going on in each room without having to be in the room, maybe fixing groups for a week at a time to build relationship and also have study groups for out of class time that are fixed for a longer period of time....

14:03:58 From Maria Andersen : I found that whiteboards have pedagogical superpowers :) Writing with a mouse on a digital whiteboard slows students down a LOT

14:04:01 From April Strom : You can upload pics in jamboard too. And use stickies for text. Upload screen shot from Desmos...

14:04:46 From April Strom : Drawback to jamboard = unable to tell who contributed what, but that's similar to work live on a whiteboard.

14:05:22 From Paula Talley : They are very creative in their video posts.

14:05:24 From Sommer Gentry : I heard Flipgrid is a way to do the video discussion boards

14:05:25 From O'Neill Kingston, Clarke U (he/his) : My department has been investigating personal whiteboards and have concluded that for \$15 for an 8' x 4' sheet, Lowe's will also pre-cut them for us - worthwhile investment!

14:05:29 From Ellen Veomett : Maria: I'm intrigued by the physical

whiteboard idea. I'm currently teaching a course and trying to use Jamboard, but am finding that students really struggle with using it. I'm wondering if just a physical whiteboard would be easier. And maybe less threatening, since you can erase without everyone seeing what you initially wrote?

14:05:35 From Debbie Yuster : I just signed up for a free Miro account (recommended on Maria's blog :-). More features than Jamboard and you can box out different frames on the same board, one per group. And this way there would be a class chat, even in breakout rooms, since the board has a built in chat.

14:06:41 From Moira McDermott : What are advantages of Miro over Jamboard?

14:06:53 From Rebekah Yates : I've heard great things about Limnu, also.

14:07:00 From Debbie Yuster : @DK Did students have a hard time inputting into the Google Sheets? Seems this wouldn't work if figures or handwritten work are needed?

14:07:00 From Paula Talley : Discussion boards in small groups also puts some positive pressure on responding.

14:07:59 From D K : @Debbie - it was Calc 1, and they got pretty good at typing out math.

14:08:08 From D K : Somewhere halfway between english and latex.

14:09:11 From Debbie Yuster : Jamboard can only do typed text via stickies. Miro can do regular textboxes. Miro can bookmark different spots on the board so you can make links to direct students to the right spot. Miro has a built-in chat, can mention people using @, can add comments and notes. More too but that's what I can think of off the top of my head. No LaTeX though. There is a way to embed Google Docs/Sheets but I found it to be clunky.

14:10:15 From Paula Talley : I have also had students post problems in the discussion forum to create a review for a test - each person responding - working out a different problem.

14:10:29 From Beverly Vance : I got stuck at the very first step with Miro—is there a way to have a blank board, or do you need to choose some sort of complicated template?

14:10:35 From Maria Andersen : Here is the link to the AMATYC talk I mentioned about Discussion Boards

<https://www.slideshare.net/wyandersen/aha-moments-active-learning-for-online-math>

14:11:44 From Beverly Vance : Oh, I think I can just close the template selector

14:12:12 From Maria Andersen : This is about a year old now, but might be useful for finding a digital whiteboard tool:

<https://busynessgirl.com/battle-of-the-free-digital-whiteboarding-tools/>

14:12:32 From Maria Andersen : Caveat: After looking at all these digital whiteboards, I have students use a physical whiteboard. :)

14:12:38 From Debbie Yuster : @Beverly Yes, just don't choose a template. Agreed it's geared towards businesses but I think there's a big need in higher ed.

14:13:38 From Sandy Gokey to All panelists : Behnaz, could you post those four questions from your surveys?

14:14:18 From Betty Weiss : Behnaz, can you type those four survey questions in the chat please?

14:14:45 From Stacie Kyhn : <https://whiteboard.fi/> Is free and very simple to use.

14:14:55 From Behnaz Rouhani : My mid-semester survey: Things I hope you keep doing. Things I don't understand. During the second half of the course, could

you...

14:14:58 From Ellen Eischen :

<https://pages.uoregon.edu/eeischen/CreativityCounts/resources/SampleRubric.pdf>

14:15:19 From Behnaz Rouhani : The end-of-semester survey solicits their response to the statement: How did you like this online class? Any comments? Was your experience an enjoyable one? How can I improve this course?

14:16:34 From Ellen Eischen :

<https://pages.uoregon.edu/eeischen/CreativityCounts/resources/HowWhyPeerReviews.pdf>

14:20:11 From Doug Ensley : We teach mathematics – we always have students who are mad to be there lol

14:20:54 From Stacie Kyhn : Connection ideas: Have Synchronous Online Office Hours and offer some on the weekend. I also let them text me via Remind.

14:20:55 From April Strom : @Doug, hi, and sadly, this is rather true. :(

14:22:35 From Stacie Kyhn : We need to make ourselves available and approachable in a variety of formats. We should not do online as "Set it and forget it".

14:22:41 From Beverly Vance to All panelists : It's from their fifth grade teacher who wanted to teach kindergarten but got stuck taking a job teaching fifth grade math

14:22:41 From Paula Talley : Make sure your links work too. :-)

14:23:02 From Nancy Sattler : If you have questions for the panelists, please enter the questions in the Q&A and they will address them

14:24:10 From April Strom : @Maria, YES! Nice summary of needs...

14:24:18 From Angela Thompson : So many links and ideas in the chatbox! Will that be saved so we can look at it later please?

14:24:29 From Michelle Younker : Excellent points, Maria.

14:24:32 From Nancy Sattler : Yes it will be saved and sent to all of you

14:24:35 From Gulden Karakok : @Maria! Love that triangle!

14:24:37 From Pat Riley - Webinar Coordinator : Angela, yes the chat transcript will be sent with the recording.

14:25:38 From Moira McDermott : can you show pyramid one more time?

14:25:45 From Paula Talley : If you click the 3 dots ellipsis you can save the chat.

14:26:14 From Angela Thompson : Thanks, but there osn

14:26:22 From Moira McDermott : thx

14:26:24 From Angela Thompson : there isn't any three dot elipsis

14:26:37 From Amelia Tebbe to All panelists : When teaching in person- I've seen a lot of students meet classmates and form study teams that they work with the rest of the semester. It seems to make a huge impact on their success. Any advice for helping students make form similar connections in a remote class?

14:27:05 From Ilknur Erbas-White : three dot elipsis not active for us

14:27:11 From Lauren Lazarus : it's usually only available to panelists I think

14:27:12 From Salma Tazi-Naim : Question for Maria: How do you organize your time to stay able to offer enough feedback/find the right amount of involvement in discussion boards?

14:28:20 From Maria Andersen : Twitter: @Graphs\_World

Facebook: <https://facebook.com/GraphsInTheWorld>

Instagram: <https://instagram.com/GraphsInTheWorld>

14:28:38 From Ilknur Erbas-White : They like GroupMe  
14:28:41 From Paula Talley : My students asked for Groupme for communication. They also use it to check on students who are not there.  
14:28:44 From Mark Colgan : I love the physical whiteboard. The fact that the fancy digital tools is the least important is encouraging.  
14:29:16 From Ilknur Erbas-White : They read their GroupMe message rather than e-mail  
14:29:32 From Maria Andersen : @Salma I calendar everything that needs to happen during the semester - looking at analytics, following up with students, grading time, etc  
14:29:46 From Salma Tazi-Naim : thanks Maria!  
14:30:02 From YP Ma to All panelists : What is groupie? A new chat app?  
14:30:06 From YP Ma to All panelists : groupme  
14:30:18 From Maria Andersen : ^ that was a GREAT typo :)  
14:30:55 From Maria Andersen : If you are struggling with the idea of being more flexible with deadlines and redos, this is a great 10-minute watch: <https://youtu.be/TM-3PFfIfvI>  
14:31:27 From Beverly Vance : Thank you all.  
14:31:44 From Ana Jimenez : Thank you!  
14:31:46 From Ilknur Erbas-White : THank you everyone for info and feedback  
14:31:47 From Lauren Lazarus : Thank you panelists and everyone!  
14:31:50 From O'Neill Kingston, Clarke U (he/his) : Thanks very much!  
14:31:51 From Carl Hammarsten : Thank you!  
14:31:51 From J.Lyn Miller : Thank you! You all gave some wonderful ideas and insight!  
14:31:52 From April Strom : Thank you all! Great webinar!  
14:31:54 From Laura Watkins : Thank you all!!!  
14:31:56 From Wade James : Thank you, nice job everyone!  
14:31:58 From Richard Leedy : Thank you  
14:32:00 From D K : Thanks everyone!  
14:32:01 From Violeta Kovacev-Nikolic to All panelists : Thank you so much!  
14:32:01 From Julie Gunkelman : Thank you all so much! Great webinar!  
14:32:01 From Katrina Johnson : Thank you!  
14:32:03 From Joseph Luc : Very interesting! Thank you!  
14:32:04 From Amelia Tebbe to All panelists : Thank you all!  
14:32:05 From Jennifer Beineke : Thank you for all the great suggestions!  
14:32:05 From Charlotte Knotts-Zides : Thank you so much!  
14:32:08 From Mary Emma Richardson : Thank you! Great session!  
14:32:09 From Nicole Infante : Thanks!  
14:32:10 From Bret Benesh : Thanks!  
14:32:10 From Sommer Gentry : This has been amazing! I'll plan to use Graphs in the World next semester also, thank you Maria Andersen!  
14:32:10 From Salma Tazi-Naim : Thank you so much! That was very useful!  
14:32:12 From Beverly Vance : Thank you!  
14:32:13 From Sandy Gokey : Thanks!  
14:32:14 From Brian Snyder : Thank you!  
14:32:14 From Salvador Rico to All panelists : Thank you!

14:32:15 From David Redett : Thank you!  
14:32:15 From Debra Franklin : Thank you all. I, too, have learned  
multiple things.  
14:32:15 From YP Ma : Thanks, everyone. E  
14:32:21 From Michelle Younker : Thank you! Excellent!  
14:32:30 From Raluca Rosca to All panelists : Thank you!  
14:32:39 From Stacie Kyhn : Thank you all!  
14:32:56 From Mary Emma Richardson : Thank you! Great Session!  
14:32:57 From Rebekah Yates : Thanks, everyone  
14:32:58 From Tonia Faulling : I really appreciated this!  
14:33:05 From Alexandra Nichifor : Thank you!  
14:33:14 From Beverly Vance : Can you copy the link in the chat?  
14:33:19 From Beverly Vance : Thank you!  
14:33:29 From Pat Riley - Webinar Coordinator : <https://bit.ly/080520web>  
  
14:33:39 From Raluca Rosca to All panelists : Thank you!  
14:33:44 From O'Neill Kingston, Clarke U (he/his) : Could Ellen say a bit  
more about improv?  
14:33:53 From Ellen Veomett : Yeah I'd like to hear about the improv too  
14:35:20 From Ellen Veomett : eat  
14:35:22 From Beverly Vance : Boil water  
14:38:24 From Ellen Veomett : So do you have students do it in pairs in  
front of everyone? In breakout rooms? They do it on their own, and then report on  
the process?  
14:38:44 From Ellen Veomett : I LOVE this idea of improv techniques; is  
there a website that you'd suggest for additional ideas?  
14:43:09 From Ellen Eischen :  
<https://pages.uoregon.edu/eeischen/CreativityCounts/course/>  
14:43:16 From Ellen Eischen :  
<https://pages.uoregon.edu/eeischen/CreativityCounts/reading/>  
14:44:29 From Ellen Veomett : thank you so much!!!!  
14:44:30 From Betty Weiss : Thanks for the great ideas, Ellen! Go Ducks!  
14:44:38 From Ellen Eischen : I'll try to put some exercises online, but  
also email me: [eeischen2uoregon.edu](mailto:eeischen2uoregon.edu)  
14:44:39 From D K : Thanks!  
14:44:40 From O'Neill Kingston, Clarke U (he/his) : Thanks for that, I'm  
definitely trying some of this!  
14:44:40 From Bret Benesh : Thanks!  
14:44:42 From Ellen Eischen : @ not 2  
14:45:02 From Rebekah Yates : Thanks, Ellen, I'm excited to try some of  
those ideas!  
14:45:12 From Alexandra Nichifor : Thank you again, have a wonderful  
semester!