SLiThEr #51: Chemistry Applications of Desmos

June 26, 2023

Leigh Nataro
Desmos Certified Presenter

leighnataro@gmail.com

Table of Contents

Desmos Mission and Principles:

- Anonymous names: blog.desmos.com/articles/new-mathematicians-list/
- Desmos design principles: blog.desmos.com/articles/desmos-guide-to-building-great-digital-math-2021/
- Desmos Equity Principles: www.desmos.com/equity

Help Center and More PD:
- Desmos Help Center: help.desmos.com/
- Email us at support@desmos.com if you have any questions
- Desmos Youtube Channel: www.youtube.com/c/Desmos
- You can always go here to see what's new at Desmos: help.desmos.com/hc/en-us/articles/4405017454477-What-s-New-at-Desmos
- Consider joining the 'Desmos Educators' group on Facebook

Be a Builder: Building Your Own Desmos Classroom Lessons

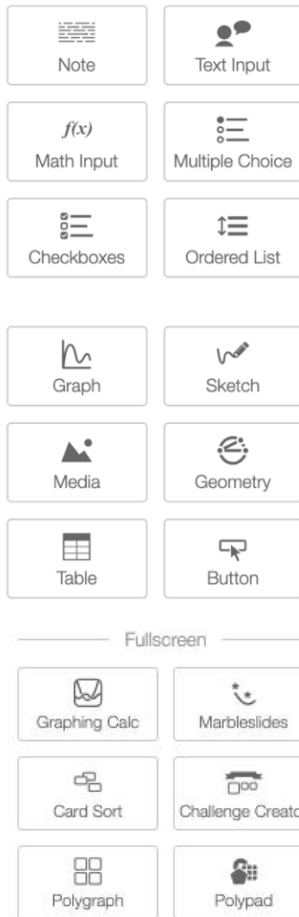Become a builder - learn how to create an exit ticket for use with your students.

Step 1: Go to teacher.desmos.com and create an account or log into an existing account.

Step 2: An example of an exit ticket I use with my statistics students can be found at https://bit.ly/33vi11z. After you copy and paste the hyperlink, click on the 3 dots to the right of the + sign and choose "Copy and Edit".	Teacher Guide + ⋮ ↗ Share activity ▢ Copy and edit
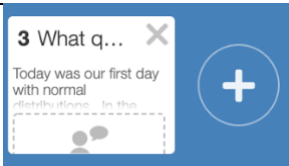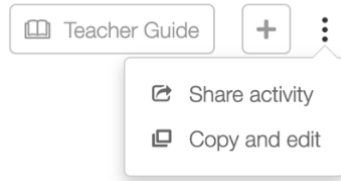
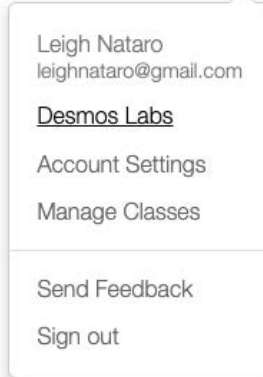|	
3 What q... ✕ Today was our first day with normal distribution... In the... 💬 ⊕	**Step 3:** You can modify the existing slides to create your own exit ticket on a topic of your choice. Clicking on the X will delete a slide and clicking on the + will add a new slide. CAUTION: You cannot "undo" when creating in Activity Builder like you can when you are working on a page in Desmos.

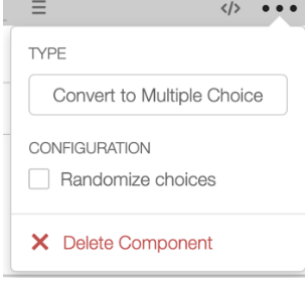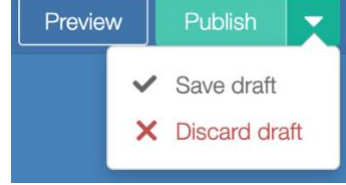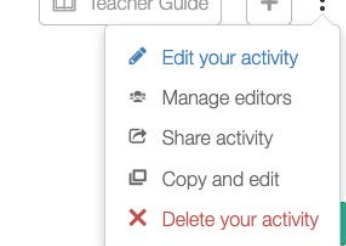|	
Note　　Text Input *f(x)* Math Input　　Multiple Choice Checkboxes　　Ordered List Graph　　Sketch Media　　Geometry Table　　Button ── Fullscreen ── Graphing Calc　　Marbleslides Card Sort　　Challenge Creator Polygraph　　Polypad	**Step 4:** Drag components from the left onto the new slide on the right. Components can be arranged in one or two columns. To make sure a slide is focused on a single concept or question, I would recommend a maximum of four components per slide. Use the scroll bar to the right of the components to scroll down to access full screen components, including the graphing calculator, marbleslides and card sort. NOTE: To access the Geometry and Marbleslides, these features must be enabled in Desmos Labs. ces ▾　Leigh Nataro ▾ Leigh Nataro leighnataro@gmail.com Desmos Labs Account Settings Manage Classes Send Feedback Sign out ☑ Marbleslides Learn more Make your own Marbleslides in Activity Builder. ☑ Geometry BETA Learn more Use the Geometry Tool in Activity Builder. *Note: Beta features might be changed or removed.*

Clicking on the three dots on the top right of a component allows you to delete the component or make modifications to the component. Clicking on the three horizontal lines on a component allows you to move the component location on the slide.	☰ </> • • • TYPE Convert to Multiple Choice CONFIGURATION ☐ Randomize choices ✕ Delete Component
Step 5: Above the list of components, you will notice a lightbulb with the words "Teacher Tips". Clicking on the lightbulb allows you to add tips related to pausing, pacing and sample student responses. These "Teacher Tips" are used to create the "Teacher Guide".	♡ TIPS FOR TEACHERS Teacher Moves Sample Responses Student Supports
Preview Publish ▼ ✓ Save draft ✕ Discard draft	**Step 6:** As you create your activity, click on the Preview button near the top corner of the screen to see the student perspective. If you need to take a break, be sure to click to the right of publish and choose the "Save draft" option.
📖 Teacher Guide ＋ ⋮ ✏ Edit your activity 👥 Manage editors ↗ Share activity 🗐 Copy and edit ✕ Delete your activity	**After you are done**, you may want to edit the activity after trying out the activity with students. Or you may want to share it with colleagues. Click on the three dots to the right of the ＋ sign to access these options.

NOTE: If you wish to create an entire activity from scratch, click on Custom under Your Activities. Then, click on New Activity near the top right of your screen.

ADDITIONAL NOTE: You can have multiple people edit an activity, but it can only be edited by one person at at time.

SCREEN PREVIEW 🗐

Copy This Screen (cmd+c)
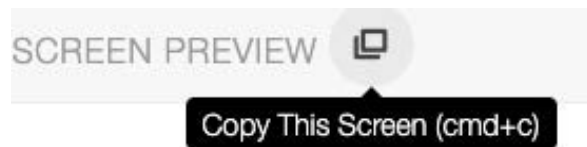
Pro Tip: See something on another activity that you like? Preview the activity and then Click on the icon near the top left to copy and then paste the screen into your own activity.

Be a Builder: Running Your Own Desmos Classroom Lessons

Learn how to effectively run your own activities, both synchronously and asynchronously.

Step 1: Go to teacher.desmos.com and create an account or log into your existing account.

Step 2: Find the activity you wish to use. Desmos has created several collections. Click on Collections and click on "Featured Collections by Desmos". If you click on View All at the bottom of the collections list, you will see all 24 featured collections that have been curated by Desmos. There are even special Distance Learning Collections!

Special Tip #1: Not all activities are to be used for the same purpose. Read the description: is the activity for development, introduction, application or practice? Recommended times vary and can range from 15 minutes to 60 minutes.

Step 3: Click on the Teacher Guide and Student Preview buttons to review all the slides in the activity. Decide if you will do all of the slides with your students or if you will assign some slides for in class and some slides for students to work on outside of class. Print the Teacher Guide and make notes about how you plan to pace the activity.

Teacher Guide   Student Preview

Step 4: Click on the green "Assign" button assign to your classes or create a single session code. It is recommended that you create a separate code for each of your classes. You can share the link with your students by clicking on the three dots beside the code and choosing student link. This will give you a hyperlink to copy and share with your students. Using the link sharing option is a great way to share activities for asynchronous learning. For synchronous learning, you can share the screen, like the one shown below. You can also copy the link to share with your students from this screen.

Hey, students!

Go to student.desmos.com and type in:

DDU 6ZT

You can also share this link with your students:

https://student.desmos.com/join/ddu6zt   Copy

Special Tip #2: If an activity is many slides long, you may wish to pace students to only a few slides at a time. This prevents students from rushing ahead just to "get it done". Also, 2:1 is the best ratio for completing an activity – 2 students per one computer. This allows students to communicate their ideas verbally before putting them in written form, which often leads to varied use of mathematical vocabulary and perseverance in solving more challenging questions.