

Explore Math with Desmos

What is Desmos?

Desmos is a free graphing and teaching tool for math available on the web as well as on iOS and Android that lets users explore math in new and exciting ways. In addition to plotting equations, classroom activities are available to help students learn about a variety of math concepts. Teachers can use Desmos to help students connect mathematical concepts to concrete, real-world shapes, and pictures.

We can learn more about Desmos at <https://learn.desmos.com/>.

Teachers can use prebuilt activities or can create activities at teacher.desmos.com.

Students can also enter the invitation code themselves on student.desmos.com.

Math Interactive Activity

Mistakes
Allow
Thinking to
Happen

Explore Math with Desmos 🧐 👨👩👧👦

By Surbhi Gautam

Last published by you a day ago.

Mobile Tablet Laptop

Teacher Guide



Activity Sessions


Assign ▾

SESSIONS	STUDENTS	DATE	
M43MTT <small>New students can join until Apr 26, 2023</small>	0	Apr 26, 2022 at 10:39 pm	View Dashboard ⋮


Screens

Student Preview


1 Let's play a game.
Here's how it works. You'll spin the spinner.



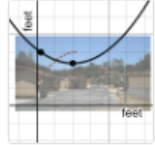
2 A New Spinner
Malik and Mia played 36 rounds with a different spinner.




3 Shot #1 – Predict
Press the play button. Then tell us:




4 Shot #1 – Analyze
Now that you've predicted the shots using your eyes, let's



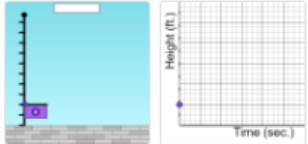
5 The Steepest
Here are the line segments shown on Screen



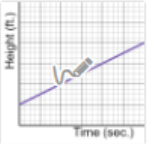
6 Warm-Up: Rule #1
This machine uses a secret rule (Rule #1) to turn inputs into




7 Warm-Up



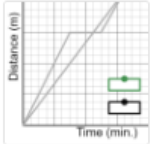
8 Speed
Here is the graph showing the linear relationship




9 The Tortoise and the Hare
Press play and watch the animation.



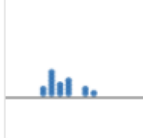
10 Label the Graphs
This graph shows the distance vs. time relationships for



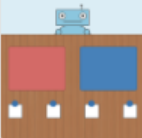
11 Hole 1



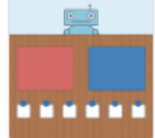
12 Ms. Carter's Class
Here's one way to show that there are multiple points




13 Warmup
Press "Deal" to receive your cards.
Drag cards from your hand to the red and blue



14 Challenge #1
Press "Deal" to receive your cards.
Drag cards from your hand to the red and blue



15 Warm-Up: Guess My Rule
Enter a different integer to help you decide what Rule #1 is



Link of Desmos Activity

<https://teacher.desmos.com/activitybuilder/custom/62684bb614e4927b4dce2e2d>

Invitation Link for Students

The image shows a screenshot of the Desmos class management interface. A modal window is open in the center, displaying an invitation for students. The background shows a grid of student names and progress indicators for various activities. The modal text reads: "Hey, students! Go to student.desmos.com and type in: **RYF 93F**". Below this, it says "You can also share this invitation link with your students:" followed by a text input field containing the URL <https://student.desmos.com/join/ryf93f> and a "Copy" button. At the bottom of the modal, there are two sections: "Have all students joined this class?" with a "Deactivate this invite code" button and a note that this prevents additional students from joining; and "Do additional students need to join the class?" with a note that new students can use the code until **Apr 27, 2023** and a "Change Date" link.

Hey, students!

Go to student.desmos.com
and type in:

RYF 93F

You can also share this invitation link with your students:

<https://student.desmos.com/join/ryf93f> Copy

Have all students joined this class?
[Deactivate this invite code](#)
This prevents additional students from joining. You can always reactivate the code.

Do additional students need to join the class?
New students can use the code to join until **Apr 27, 2023**. [Change Date](#)

Teacher Dashboard: Summary View

[Copy of] Explore Math with Desmos RYF93F

Anonymous Pacing Pause 28 students Time Entered

2 A New S... 3 Shot #1... 4 Shot #1... 5 The Ste... 6 Warm-U... 7 Warm-Up... 8 Speed... 9 The Tort... 10 Label t... 11 Point... 12 Ms. Ca... 13 Warmup... 14 Challen... 15 Warm... 16 Last Yea...

Anonymize mode is on. Your students' names have been changed to the names of notable mathematicians. [Learn more](#)

Student Name	2 A New S...	3 Shot #1...	4 Shot #1...	5 The Ste...	6 Warm-U...	7 Warm-Up...	8 Speed...	9 The Tort...	10 Label t...	11 Point...	12 Ms. Ca...	13 Warmup...	14 Challen...	15 Warm...	16 Last Yea...
Wang Zhenyi	✓	•		•	✓	—	×								
Martin Lo	✓	•	✓	×			•	•	•	✓	×		✓		•
Alan Turing															
Margaret H. Ha...	×	•	×	×	×	—	×	•	•	×					
Sarah Flannery	✓	•	×	•		—	•	•	•	✓	×		✓		•
Hertha Ayrton	✓	•	×	•		—	•	•	•	✓	×		✓		•
Candice Price	✓	•	✓	•	×	—	×	•	•	✓	✓		✓		•
Jesse Wilkins Jr.	×	•	✓	•			•	•	•	×	×		×		
Eugenia Cheng	×	•	×	•			×								
Florence Glanfield	×	•	✓	×			×	•	•	✓			✓		•
Liu Hui	×	•	✓	×	×	—	•	•	•	✓		✓	✓		
Gladys West	×	•	✓	×	×	—									
Concha Gómez	×	•	✓	×	×	—	•	•	•	✓	✓	✓	✓		•
Etta Zuber Falco...	×	•	✓	×	×	—	•	•	•	×	×	✓	✓		
Christine Mann ...	×	•	×	•	×	—	×	•	•	✓			×		•
Trachette Jackson															
Argelia Velez-Ro...			✓	•	×		×	•	×	✓			✓		

Teacher Dashboard: Teacher View

[Copy of] Explore Math with Desmos RYF93F

Snapshots Summary **Teacher** Student

1 Let's pla... 2 A New S... 3 Shot #1... 4 Shot #1... 5 The Ste... 6 Warm-U... 7 Warm-Up... 8 Speed 9 The Tort... 10 Label t... 11 PHOLE... 12 Ms. Ca... 13 Warmup... 14 Challen... 15 Warm-... 16

Anonymize Pacing Pause 27 students Time Entered

Anonymize mode is on. Your students' names have been changed to the names of notable mathematicians. [Learn more](#)

Screen 14 of 16

Challenge #1

Show Correctness

Responses Overlay

Martin Lo Sarah Flan... Hertha Ayrton

Candice Pr... Florence Gl... Liu Hui

Concha Gó... Etta Zuber Fal... Argelia Velez...

Press "Deal" to receive your cards.

Drag cards from your hand to the red and blue areas.

GOAL: Create two groups of cards with the SAME SUM using as many cards as possible.

Teacher Moves Sample Responses

Teacher Dashboard: Student View

[Copy of] Explore Math with Desmos RYF93F

Snapshots Summary Teacher Student

Anonymize Pacing Pause 24 students 0: Time Entered +

1 Let's pla... Here's how it...
2 A New S... Malik and Mia...
3 Shot #1... Press the play...
4 Shot #1... Now that you've...
5 The Ste... Here are the line...
6 Warm-U... This machine...
7 Warm-Up... 1 student
8 Speed... Here is the graph... 11 students
9 The Tort... Press play and... 6 students
10 Label t... This graph... 1 student
11 Ho...
12 Ms. Ca... Here's one way...
13 Warmup... Press "Deal" to receive your...
14 Challen... Press "Deal" to receive your...
15 Warm-... Enter a different...
16

Anonymize mode is on. Your students' names have been changed to the names of notable mathematicians. [Learn more](#)


STUDENT SCREEN PREVIEW

3 of 16 Next >

Shot #1 – Predict

Press the play button. Then tell us:

What's your best guess? Does the ball go in or out?



Teacher Moves

Using Teacher Pacing and Pause

The screenshot shows the Desmos Teacher interface for a lesson titled "[Copy of] Explore Math with Desmos" (ID: RYF93F). The lesson plan consists of 16 screens, with the first two screens highlighted in orange. A modal dialog is open, prompting the teacher to "Select a new screen to change your range." The dialog includes a "Cancel" button and a "Restrict to Screens 1 - 2" button. A purple notification bar at the top of the main content area states: "Anonymize mode is on. Your students' names have been changed to the names of notable mathematicians. [Learn more](#)".

Browser tabs include: Digital..., Digital..., Explore, CV_202..., [Copy of], gmail - S, Inbox (1), Google, desmos, Activity, Course, [Co], x.

Browser address bar: <https://teacher.desmos.com/dashboard/626916db602e9e0519b2c93b#teacher/step/e7d4e7d1-b0fc-44f0-89f9-008585b25c70>

Lesson Plan Screens:

- 1 Let's pla... (16)
- 2 A New S... (1)
- 3 Shot #1 ... (4)
- 4 Shot #1 ... (4)
- 5 The Ste...
- 6 Warm-U...
- 7 Warm-Up
- 8 Speed
- 9 The Tort...
- 10 Label t...
- 11 PHOT...
- 12 Ms. Ca...
- 13 Warmup
- 14 Challen...
- 15 Warm...
- 16

Teacher Moves | Sample Responses

Feedback Given by Students

The screenshot shows a Desmos classroom interface. At the top, there's a navigation bar with various activity thumbnails. Below that, a purple banner reads "Anonymous mode is on. Your students' names have been changed to the names of notable mathematicians. [Learn more](#)". The main content area is titled "Last Year" and contains a grid of student avatars (blue robot heads) with checkboxes next to their names. To the right of the avatars, there are text input boxes for feedback. The feedback text includes:

- It's fun, and i feel that when what you're learning is fun to learn, your brain holds the information better as it associates what you learned with a po
- It's ok for a change.
- Interactive but hard on the phone
- Too slow, desmos keyboard/number pad too small
- I found it really nice as

- Florence Glanfield
I found it really nice as it really interactive
- Concha Gómez
interactive
- Christine Mann Darden
Luvley
- Argelia Velez-Rodriguez
good

Thanks!



Any questions?