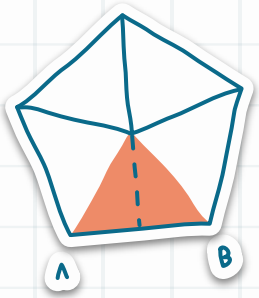
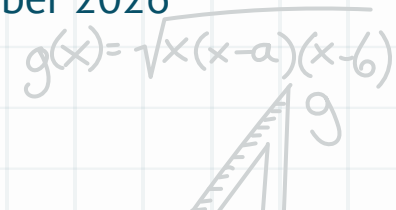
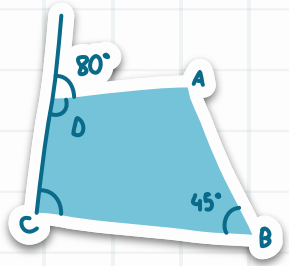


Beyond the Digital Worksheet: Transforming Math Instruction with Amplify Desmos



Victoria Holcomb & William Jennison
NTID Math & Science Conference
October 2026



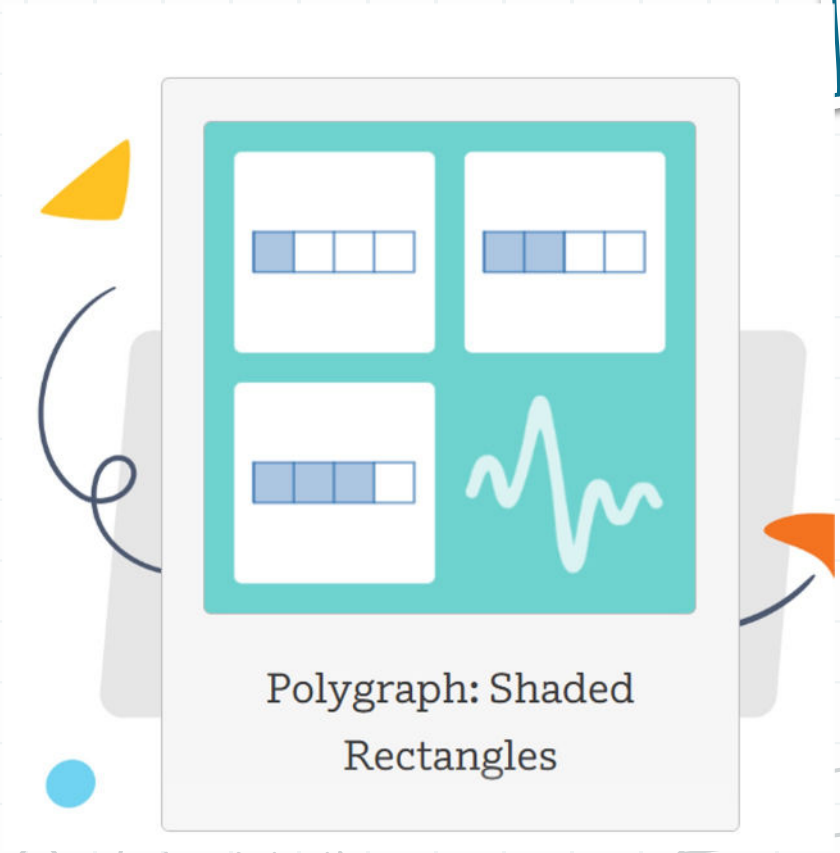


Bell Ringer: Polygraph Game

Welcome! While we wait...
Go to student.amplify.com
Type in the code:

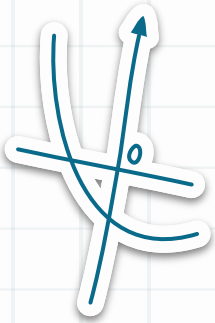
Z37FKK

The game will pair you up with someone else. Type YES/NO questions like the game "Guess Who"

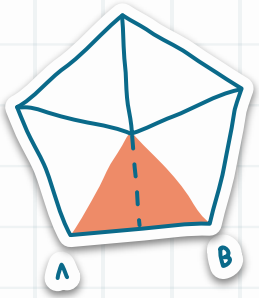


A+B+C+D=360°

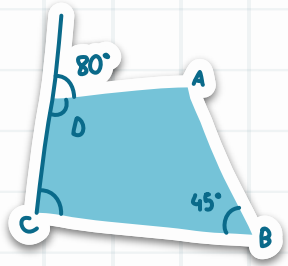
g(x)=√x(x-a)(x-6)



Beyond the Digital Worksheet: Transforming Math Instruction with Amplify Desmos



NTID Math & Science Conference
October 2026



Objectives

In this presentation, participants will...

- Experience the Amplify Desmos program from the student's perspective AND the teacher's perspective.
- Gain the knowledge on how to use the basic controls in the Amplify Desmos program such as searching for activities, using the teacher's dashboard, and applying tools to engage students.

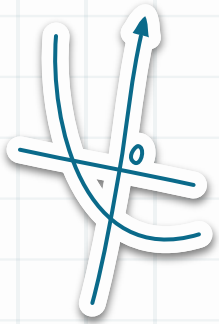
Table of Contents

01 Overview of Amplify Desmos

02 Student's View of Amplify Desmos

03 Teacher's View of Amplify Desmos

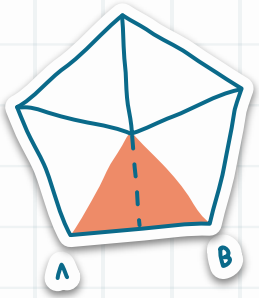
04 More Details & Key Features



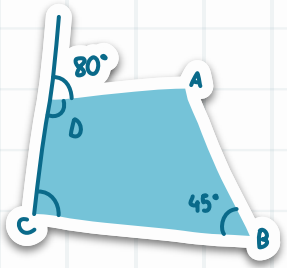
$\bar{x} = \frac{\Sigma fx}{N}$

Overview of Desmos / Amplify

$xy = ab^2$



$g(x) = \sqrt{x(x-a)(x-6)}$



Just so we're clear...

Desmos

FREE math tools

desmos.com

Amplify Classroom

FREE Desmos classroom activities, some limited access

classroom.amplify.com

Amplify Desmos Math

Paid Desmos curriculum with all lessons and resources

amplify.com/programs/amplify-desmos-math

Amplify Classroom

- Free Online Activities
- Problem Based Approach
- Designed and used by students of all abilities
- Fun and engaging for students
- Safe place to get the wrong answer, or be creative with the numbers
- The FREE parts are great to use as a supplemental resource for your lessons - add to your toolkit

Typical Parts of an Amplify Desmos Activity

- Main Interactive Activity Screens
- Additional Practice
  - Interactive Activity and/or Printable Worksheet
- PDFs / Printables
  - Student Edition
  - Teacher Edition - Lesson Plan and Guide
  - Printable Notes/Worksheet
  - Answer Keys
- Other Resources
  - About
  - Differentiation
  - Student Workbooks

Pinwheels

Lesson 1: Exploring Angles

Assign | Copy and edit

Students reason about the measures of angles on a pinwheel.

OPTIONAL This lesson is optional as it addresses standards from a prior course, supporting students in surfacing prior knowledge.

Let us know what you thought about this lesson by filling out this survey.

Screens | About | Resources | Differentiation

Warm-Up PAIRS 10 MIN 2 SCREENS

Students recall what an angle is and estimate angle measurements.

1 Warm-Up
For each challenge,

2 Warm-Up
a. Estimate the measure of

Activity 1 PAIRS 15 MIN 5 SCREENS

Students explore angles within unique pinwheels. Students then use familiar angles such as $90°$ and $360°$ to determine and estimate unknown angles.

3 Design Your Pinwheel
Drag the points to make a design, then press "Create Pinwheel."

4 Experiment With Angles
Here is your design from

5 Pinwheel #1
Here is one student's

6 Compare and Connect
Callen:
Callen and Duri both

7 Pinwheel #2
Here is another

Activity 2 PAIRS 10 MIN 3 SCREENS

Students explore pinwheels that have gaps (do not fit evenly around a full circle).

8 Which Angle?
Here is a new pinwheel with

9 Pinwheel Gap
Here are the angle measures for some new pinwheel

10 Explore More
Experiment with different

Synthesis WHOLE CLASS 5 MIN 1 SCREEN

Students synthesize their understanding of estimating and reasoning about the measure of angles on a pinwheel.

11 Synthesis
Describe how to estimate the

Pinwheels

Lesson 1: Exploring Angles

Assign | Copy and edit

Students reason about the measures of angles on a pinwheel.

OPTIONAL This lesson is optional as it addresses standards from a prior course, supporting students in surfacing prior knowledge.

Let us know what you thought about this lesson by filling out this survey.

Screens | About | Resources | Differentiation

PDF — Teacher Edition



PDF — Student Edition



PDF — Student Edition (Answers)



PDF — Show What You Know



PDF — Show What You Know (Answers)



PDF — Math Language Development



Lesson Practice — Practice 7.7.01



Practice — 7.7.01 Additional Practice



A+B+C+D=360°

Preview Full Amplify Desmos Math Curriculum



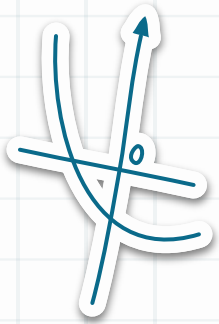
- PreK/TK PK
- Kindergarten K
- Grade 1
- Grade 2
- Grade 3
- Grade 4
- Grade 5
- Grade 6
- Grade 7
- Grade 8
- Grade 9+

Pros

- Visual & Interactive Learning
- Immediate Feedback
- Teacher Facilitation Tools (Dashboard, Pause, Pacing, Student View)
- Problem-Based
- Printable Resources
- Requires a lot of teacher interaction

Cons

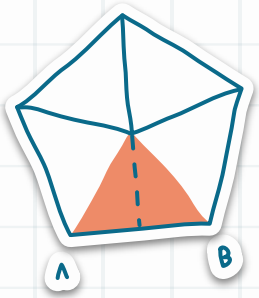
- Reliance on Technology
- Limited Practice Problems
- Learning curve with using the program



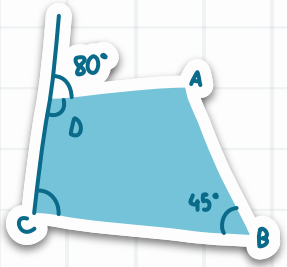
$\bar{x} = \frac{\sum fx}{N}$

Let's Play as Students!

$xy = ab^2$



$g(x) = \sqrt{x(x-a)(x-6)}$

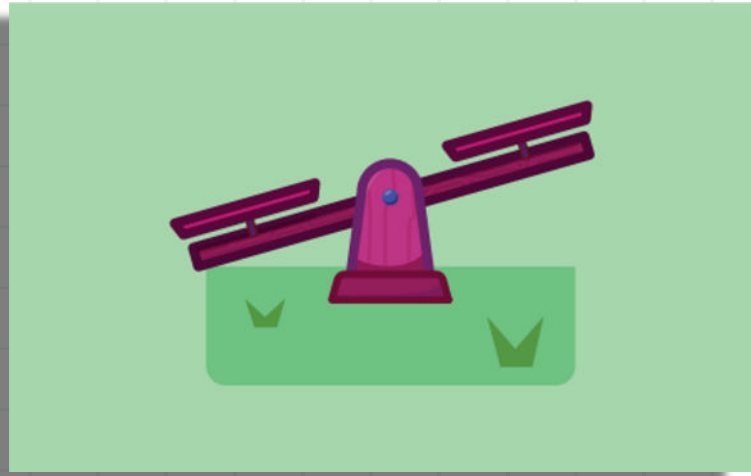


Join this Activity

Weight For It

Reasoning About Unknown Values

(Grade 6)



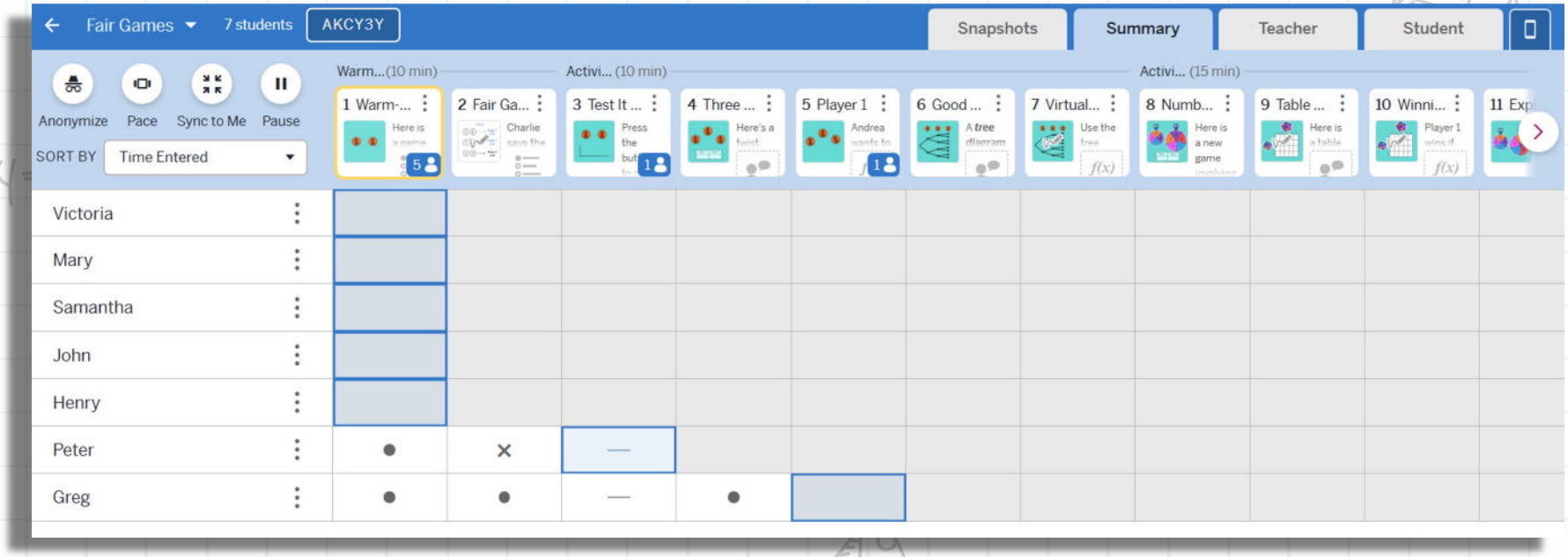
Use your laptop, tablet, or device.

(Pair up if you don't have a device)

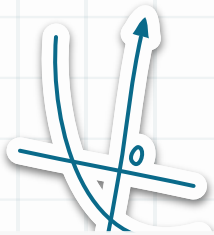
Go to student.amplify.com

Type in the code: E88VMU

Teacher View

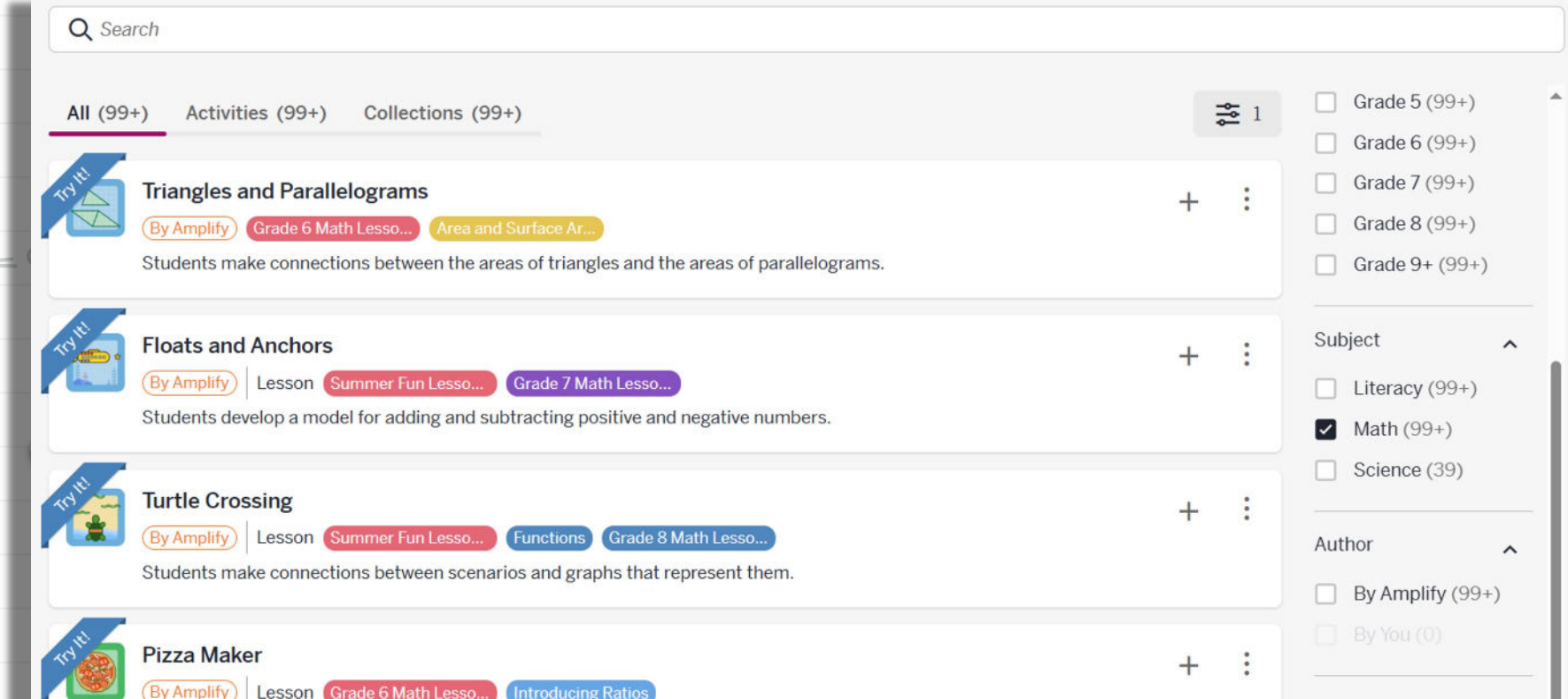


Search for Activities









Browse Collections By Grade Level



Algebra 1

By Amplify | 63 activities

Teach linear equations and inequalities, exponential functions, data, and more, with these Desmos favorites, as well as free lessons come from our complete, standards-aligned math program, Amplify Desmos Math.



Grade 8 Math Lessons

By Amplify | 54 activities and 1 collection

Teach concepts like congruence, slope, linear equations, exponents, and the Pythagorean theorem with these free 8th grade lessons from our complete, standards-aligned math program, Amplify Desmos Math.



Grade 6 Math Lessons

By Amplify | 49 activities and 1 collection

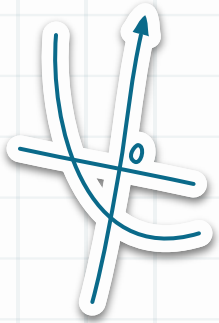
Students learn about area, ratios, and percentages in real world contexts. They'll divide fractions, solve equations with decimals, and more with lessons from our complete, standards-aligned math program, Amplify Desmos Math.

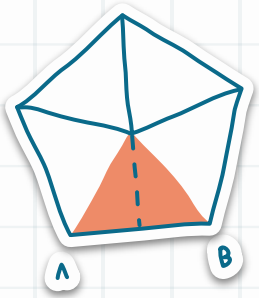


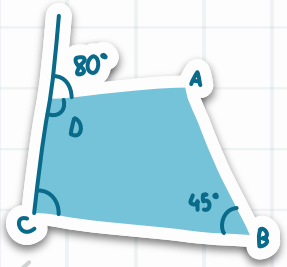
Grade 7 Math Lessons

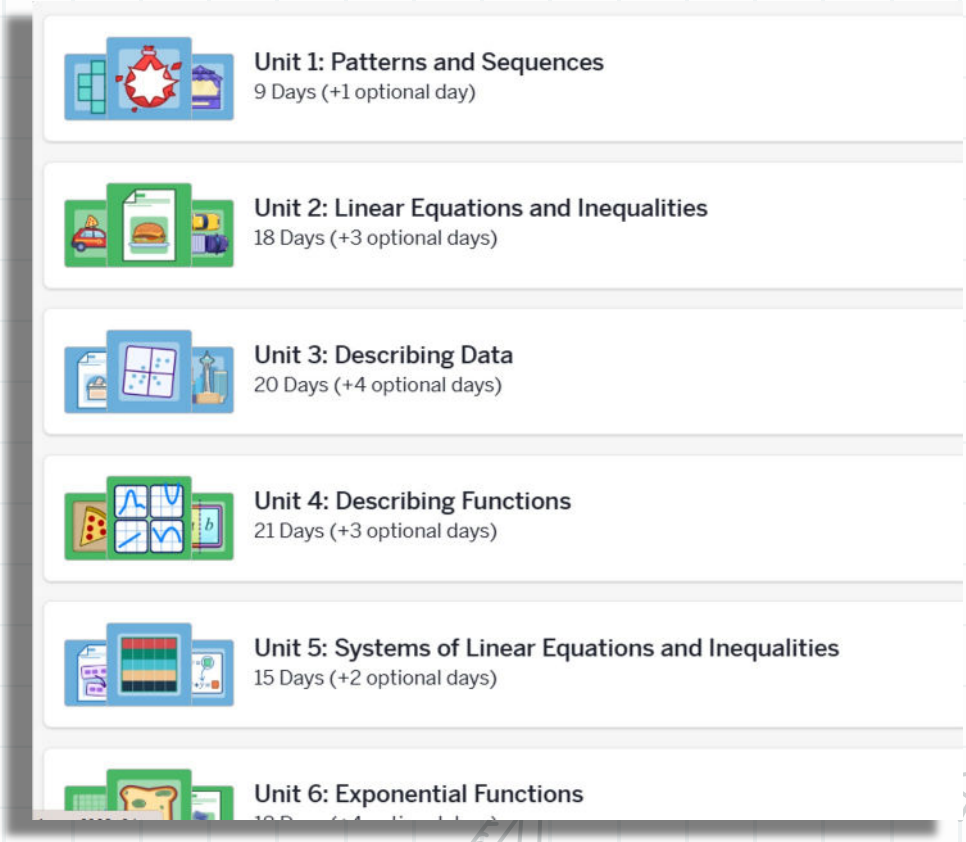
By Amplify | 47 activities and 1 collection

Browse Collections By Unit

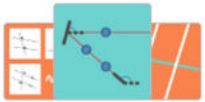








Browse Collections By Topic



Middle School Geometry

By Amplify | 10 activities

These activities are designed for classrooms studying concepts in geometry, such as angle relationships, the Pythagorean theorem, area, and volume relationships.



Middle School Statistics

By Amplify | 10 activities

These activities are designed for middle school classrooms where students are studying univariate data or bivariate data represented in dot plots, histograms, scatter plots, and more.



Linear Systems

By Amplify | 9 activities

These activities are designed for algebra classrooms where students are learning to represent and solve systems of two linear equations.

Browse Collections By Activity Type

Polygraph: Triangles
Edited by Desmos _ | 30-45 minutes | Int
This Custom Polygraph is designed to spa
questions includes: scalene, obtuse, acute

Polygraph: Lines
By Desmos Classroom | Linear Functions
We have designed Polygraph to foster the

Polygraph: Exponentials
By Desmos Classroom | Exponential Functio
This custom Polygraph is designed to spar
functions. Key vocabulary that may appea

Polygraph: Circles and Ellipses
Edited by Desmos _ | 30-45 minutes | Int
This Custom Polygraph is designed to spa
student questions includes: center, radius,



Escape Rooms!
By Amplify | 3 activities
Challenge yourself–and your students–with these awesome



Fluency Practice for All Grades
By Amplify | 5 activities
Use Fluency Practice activities to strengthen vital math skill



Marbleslides
By Desmos Classroom | 17 activities
Explore this collection of Marbleslides activities and #Marb

Another Activity

Floats & Anchors
Intro to Adding/Subtracting Integers (Grade 7)

Student Code: KGPKHU
student.amplify.com



More Examples of Free Activities

Grade 7–8	Turtle Time Trials	Unit Rate, Proportional Relationship, Slope
Geometry	Transformation Golf	Translations, Reflections, Rotations
Grade 8	Land the Plane	Slope
Algebra	Marbleslides: Lines	Graphing linear functions

A+B+C+D=360°

More Examples of Free Activities

Grade 6	Balloon Float	Ratios, Proportional Reasoning
Grade 4–6	Battle Boats / Mini Golf Marbleslides	Points on the Coordinate Plane
HS Geometry	Irrigating Areas	Area of circles and sectors
Algebra	Simplify Expressions & Distributive Property	Simplifying Expressions and Distributive Property






More Examples of Free Activities

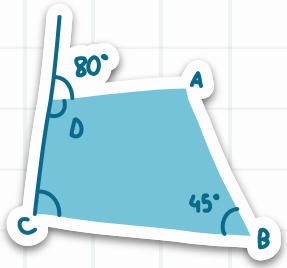
Algebra	**Will It Hit the Hoop?**	Parabolas / Quadratic Functions
Any Grade	**Laser Challenge**	Angles
Grade 6	**Flour Planner**	Dividing fractions
Grade 6–8	**The Plot Thickens**	Histograms



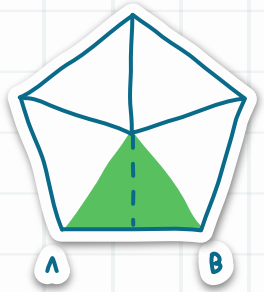



More Examples of Free Activities

Grade 7	**Fair Games**	Probability, Compound Events
Algebra	**Central Park**	Connecting arithmetic to algebra



Thanks!



Do you have any questions?

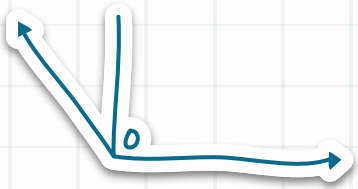
holcomb.victoria@aidb.org

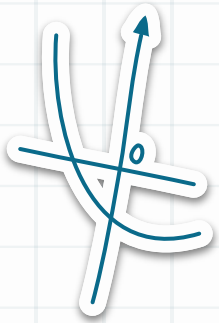
jennison.william@aidb.org

$xy = ab^2$

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Please keep this slide for attribution









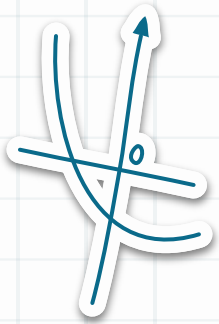
$= \frac{\Sigma fx}{N}$



ab^2



$A+B+C+D=360°$

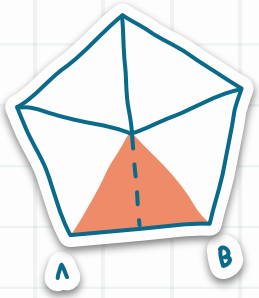


$\bar{x} = \frac{\sum fx}{N}$

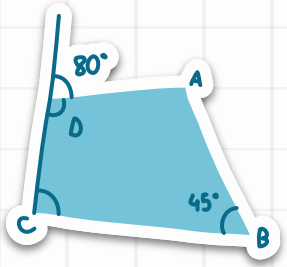
More Information

(the following slides will not be shown during the presentation, but we will explain these features in real time)

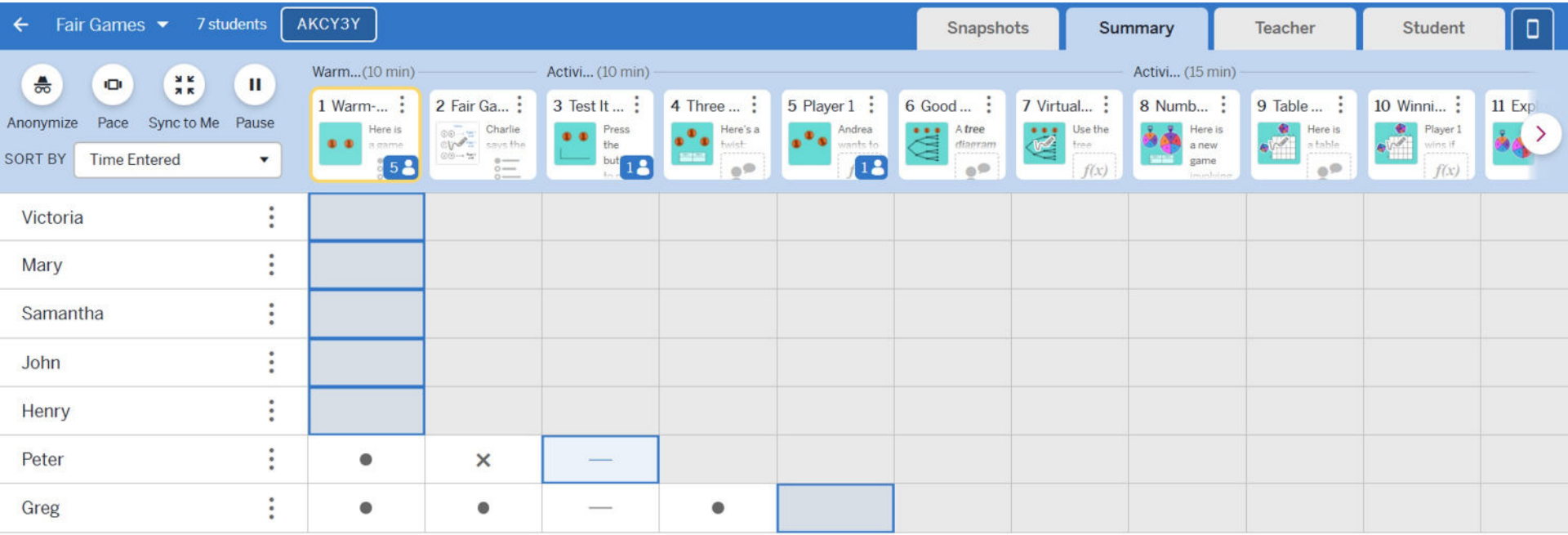
$xy = ab^2$



$g(x) = \sqrt{x(x-a)(x-6)}$

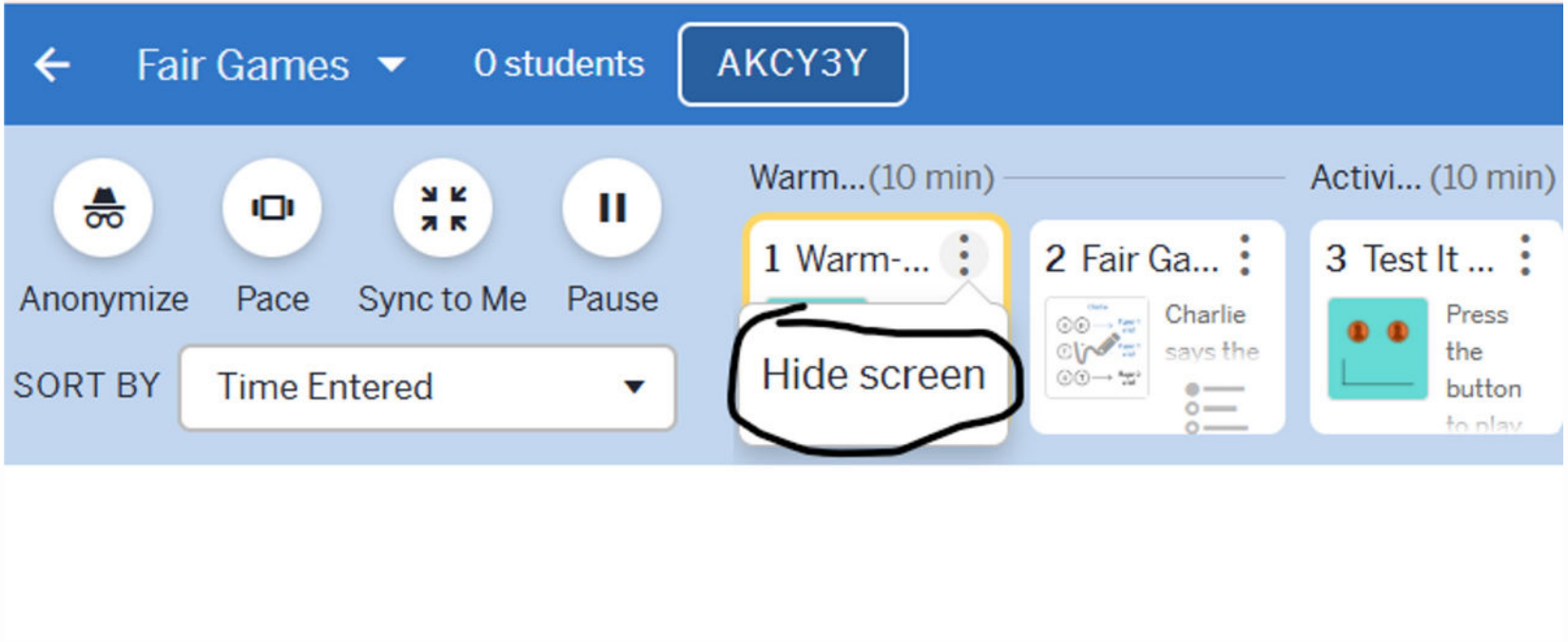


Key Feature: Teacher Dashboard



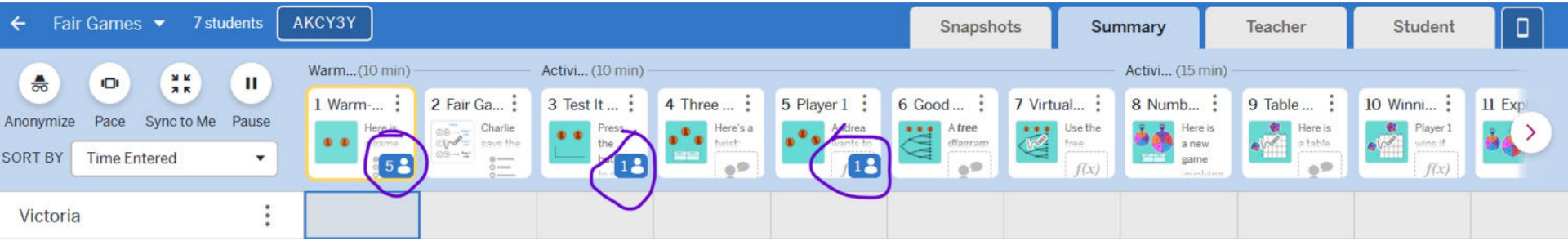
Hide Screens

Select which screens you want the students to do, and which they can skip

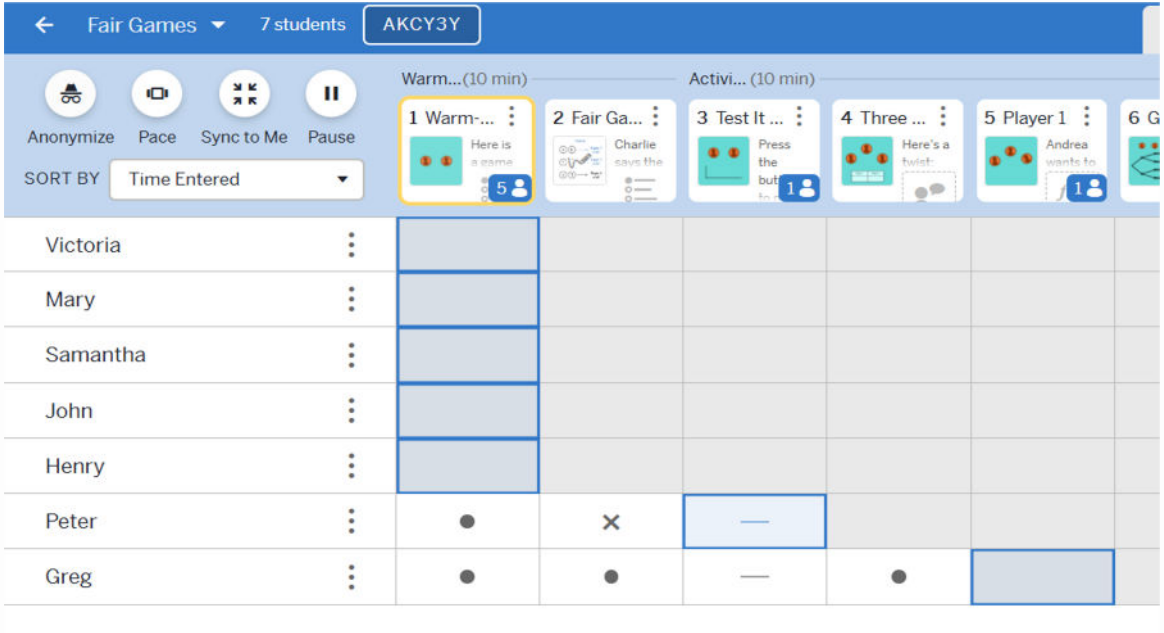


How many students are on each page

Helps you pace, and monitor their progress



Right/Wrong?

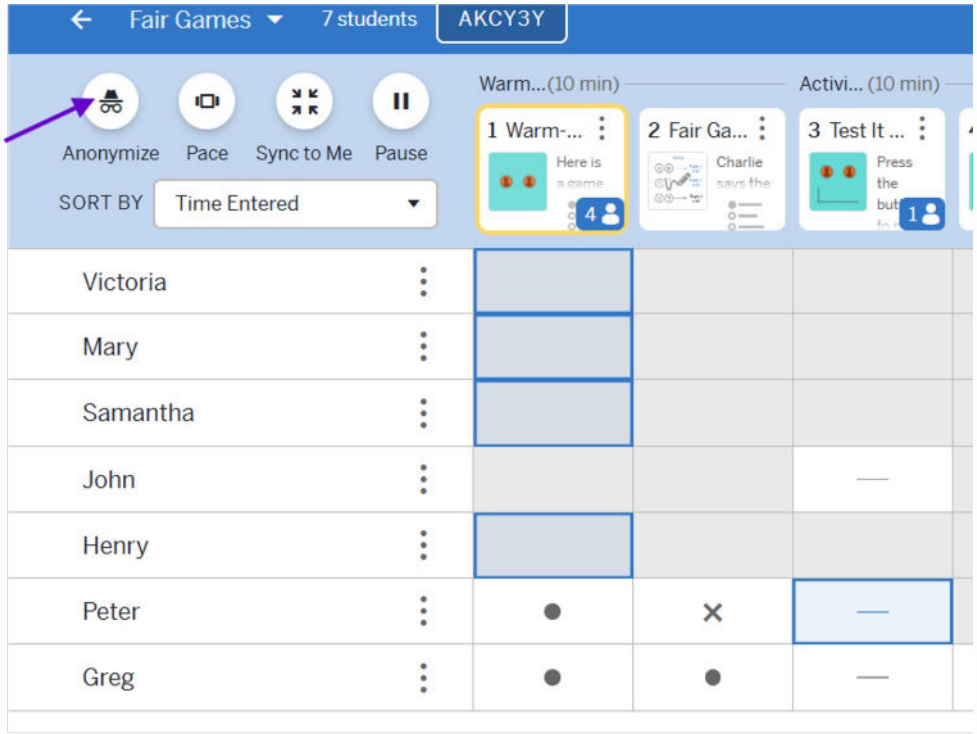


✓ correct
✗ incorrect

• open response (not automatically checked)
— nothing for student to do on this page

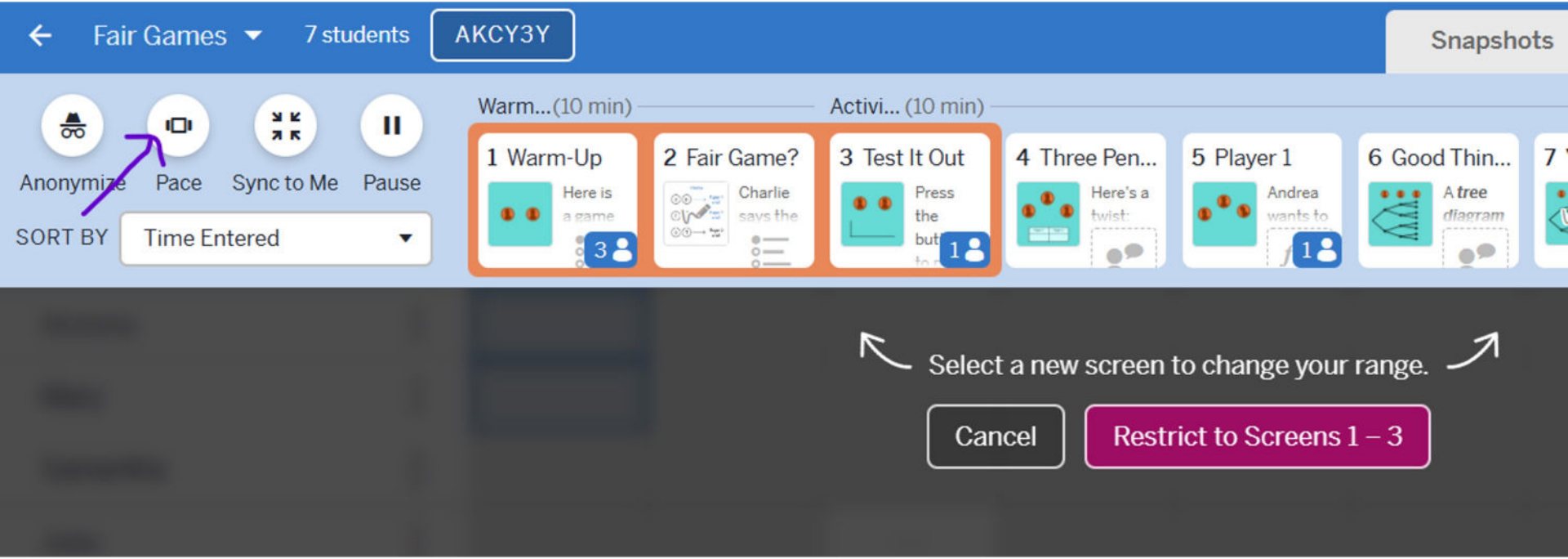
Anonymize

Make all student names change so that students do not know who is who, but you can change it back to look at the data later



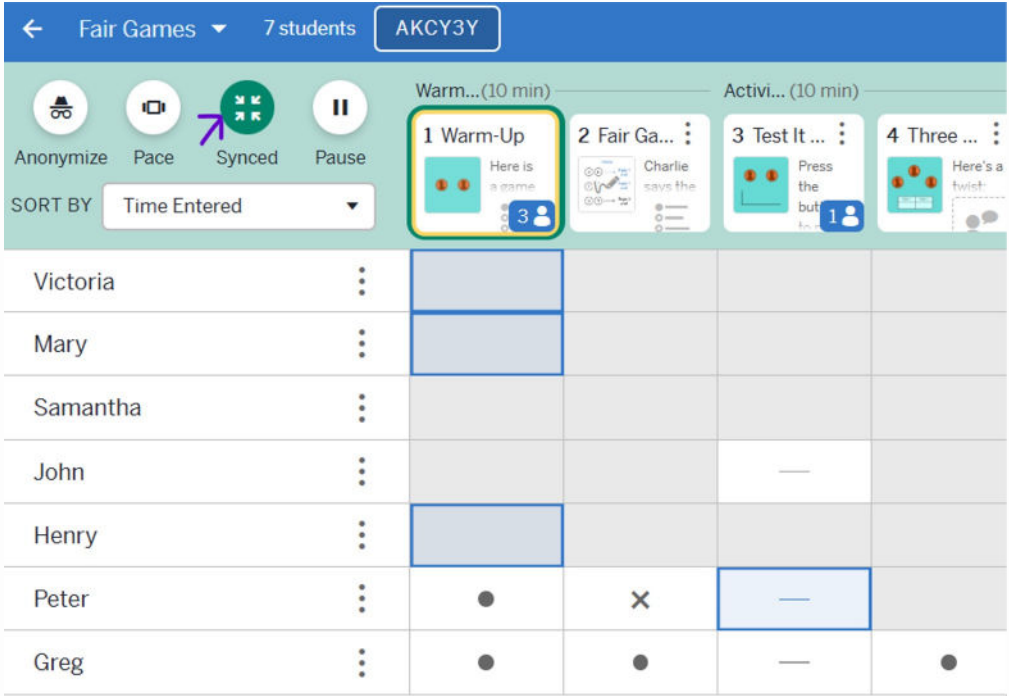
Pace

Lets you keep the students restricted to only certain screens, so that they cannot jump ahead



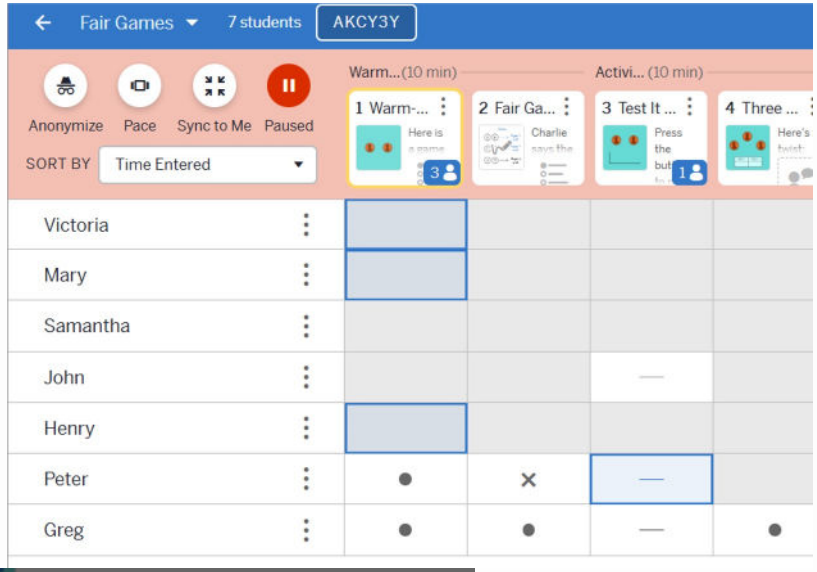
Sync to Me

This makes it so that all students are locked to the one screen that the teacher account is looking at. This can be helpful so that you know students are all looking at the same screen at the same time.



Pause

Pause freezes everyone's screen, no matter where they are in the activity.

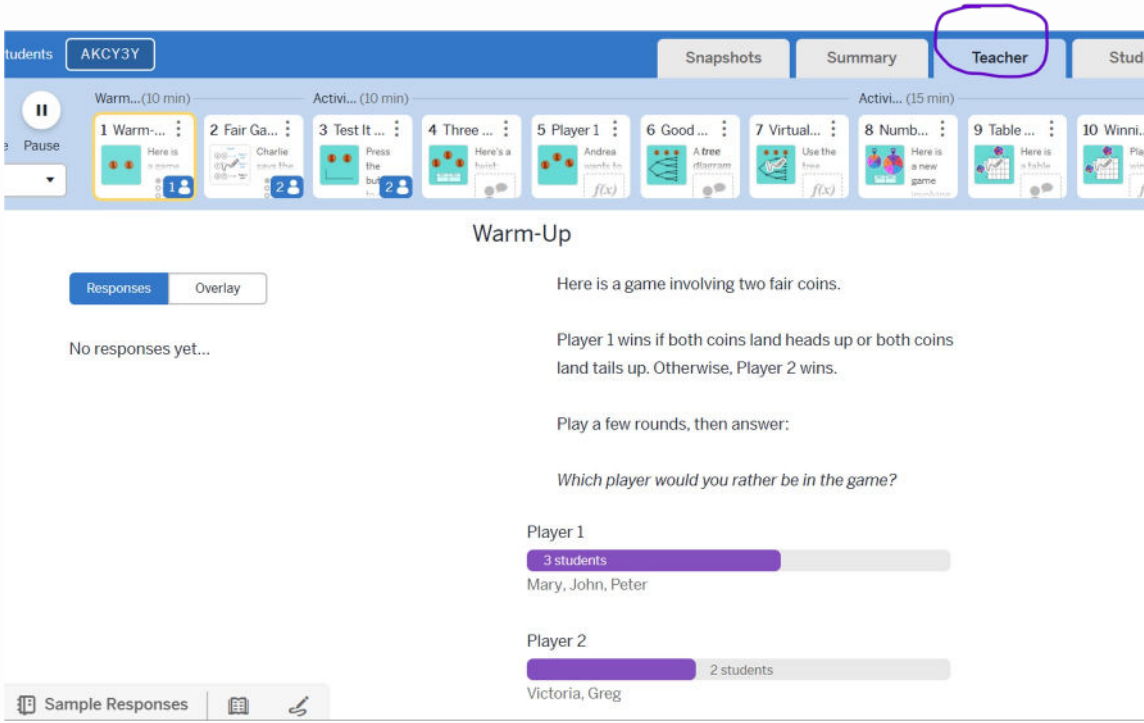


Student View →



Teacher Tab

View all student answers in one spot



Student Tab

This tab shows you what the student view looks like; good for projecting if you would like to discuss the screen with the students too

