Using technology to enhance best practices

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Go Here for Resources


YES
Activity #1 Padlet Scavenger Hunt

Let’s get to know each other and play with an awesome tool!

Padlet Scavenger Hunt

Go Here for Resources

How does Padlet increase student engagement?

In My classroom...
Use to build community, social engagement
Promotes Creativity and Communication
Movement and artifacts!

Warm Up:
Percent Increase and Decrease Brainstorm

Homework Reflection
Distributive and Division Homework Reflection

Technology Challenge/Scavenger Hunt:
Circle Construction Challenge
Transformations Scavenger Hunt

● **How does Padlet increase student engagement?**

● **How might you use Padlet in your classroom?**

Molly Huggins
Anacortes Middle School—7th and 8th grade

Core Beliefs:
- It is my job as an educator to empower all students to know that they are valued for who they are in the math classroom.
- Technology is a tool to enhance student learning while allowing all voices to be heard.

1. Anticipate
   - Do the problem yourself
   - What are students likely to produce?
   - Which problems will most likely be the most useful in addressing the mathematics

2. Monitor
   - Listen, observe, identify key strategies
   - Keep track of approaches
   - Ask questions of students to get them back on track or to think more deeply

3. Select
   - CRUCIAL STEP – what do you want to highlight?
   - Purposefully select those that will advance mathematical ideas

4. Sequence
   - In what order do you want to present the student work samples?
   - Do you want the most common? Present misconceptions first?
   - How will students share their work? Draw on board? Put under doc cam?

5. Connect
   - Craft questions to make the mathematics visible.
   - Compare and contrast 2 or 3 students’ work – what are the mathematical relationships?
   - What do parts of student’s work represent in the original problem? The solution? Work done in the past?
5 practices + Tech =

Student Engagement

Mathematical Discourse

Generalizations and Conjectures

Connection and Community

ACCESS FOR ALL!!

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5 PRACTICES:

What are your strengths? What evidence do you have from student learning?

What are your areas of growth? How might this help student learning?
Stand and Talk

Activity #2 Desmos

“Discovery” activity- day 1 of unit

Desmos “featured” activity

https://student.desmos.com/?prepopulateCode=jrn2uw

Go Here for Resources

How can you connect the five math practices to the Desmos Activities?

Anticipating students’ solutions to a mathematics task
Monitoring students’ in-class, “real-time” work on the task
Selecting approaches and students to share them
Sequencing students’ presentations purposefully
Connecting students’ approaches and the underlying mathematics

Go Here for Resources

My Favorite Desmos “Featured” Classroom Activities

Poly Graph - Shape Bucket
Marbleslides : Lines
Card Sort: Number Properties
Transformation Golf
Click Battle

Sample “custom” Desmos Activities

Warm Up: Inequality Warm Up

Vocabulary Match: Percent Vocab and Context Match

Card Sort: Rational Number Card Sort

Go Here for Resources

Huggins Custom: Desmos Activity Builder

Warm Up: Proportional or Not Proportional?

Card Sort: Solving Equations With Variables on Both Sides

Ordered List: Outcomes and Chance

(adapted from Open Up Curriculum)

Other Tech Ideas...
Page Marker

Go Here for Resources

“Youtube videos” as exit tickets, classwork, reflections

Promotes Student voice and gives you an insight to student approaches, mistakes and understandings

Desmos Geometry Example

Emily's Exit Ticket

Go Here for Resources

Selecting and sequencing student thinking through “drawing” tool

Monitoring students thinking

Sample Lesson

“What is an example of a Ratio?”

Jayden: 6:2

Eleanor:

Mia: If there is 5 pigs and one goat then the ratio is 5:1. Let's say you add one more goat. Then the ratio would be 10:2. Which is still the same ratio because when you narrow it down it's equivalent to 5:1.
Quiz
- give instant feedback for students to fix mistakes and try again

Lock Box for Break Out EDU
- can be used to create a digital breakout edu

Reflection and Self Assessment
- student self assessment, class norms, student reflection of learning

More Desmos Resources!!
Desmos Basics

Graphing Calculator

Scientific Calculator (USED ON SBA!)

Desmos Geometry

Classroom Activities- Featured Activities and Activity Builder

Old School Nintendo + Desmos = !!!!!

Retro Desmos

Super Mario Quadratics
by John Rowe

Desmos - You Try!

- Create an account at teacher.desmos.com

- Find a Desmos Featured Activity to try in your classroom. Search Activities Here!

- Try creating your own activity. Get Help Learning Here!

Final notes...

And feedback please!
● Be brave. Be transparent.
● Make technology social!
● Center technology around student voice/strategies.
● Tech everyday!??!? Heck no.

Let’s Reflect

Google Form Reflection

Go Here for Resources