Using Digital Tools for Formative Assessment and Student Engagement

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Mike, where can I find today’s resources?

https://tinyurl.com/y939y2lk
I am an educator not a sales representative for any of the digital tools shown today!
Two surgeons graduate from medical school at the same time.

**Doctor A** regularly keeps up with the latest research and techniques for knee procedures and uses what he has learned.

**Doctor B** on occasion looks at the latest research and techniques but thinks he has mastered all he needs to know when performing knee procedures.

You need a knee replacement. Who would you choose?
So... Do students know what the learning target(s) are for their learning?
Assessments clearly aligned to Learning Targets are crucial for increasing student learning!

- Clear, student friendly **learning targets**
- **Assessments** directly linked to learning targets
- **Instructional activities and experiences** that prepare students to demonstrate mastery of the learning targets on the defined assessments
Instructional Process

**PLANNING**

- Shared learning targets in student friendly language.
  (What is the intended learning?)
- Clear assessment criteria.
  (How will students show they have mastered the target?)

**INSTRUCTION**

- Best practices
- Resources
- Effective questioning & dialogue

**FORMATIVE ASSESSMENT**

Teacher & Student (self & peer)

**ACTIONABLE FEEDBACK**

- Teacher changes instruction
- Student changes learning tactics

**SUMMATIVE ASSESSMENT**

- Grading
- Reporting
Formative Assessment Contains Five Key Components

- Student friendly learning targets
- Effective questioning and dialogue strategies
- Actionable feedback for students
- Activating peers as resources
- Balanced assessment system
Why Monitor Progress?

We do NOT KNOW ahead of time whether an intervention will be successful for an individual student.

Do they ASSUME in the hospital that your heart is working just fine after your bypass surgery? After all…the surgery works well for MOST patients…..
Today’s Learning Targets

• I can use appropriate digital tools as a means of formatively assessing my learning targets.

• I can use appropriate digital tools to engage my students in their learning.
Digital Tools Shown Today Will…

✓ Use learner response systems or voting websites.

✓ Display results anonymously and discuss with the class.

✓ Use communication websites to allow students to post and discuss content.

✓ Provide feedback electronically.
Plickers can be used to gather prior knowledge about an upcoming unit.

7th Grade Health – Communicable Diseases
Please answer the following questions by using the provided Plickers cards.
Plickers in 3rd Grade ELA

Click Picture to view video
Padlet can be used to activate students as resources when reading and summarizing a passage.

11th Grade Current Events – Global Warming
“Jigsaw Activity”

1. Using the closest people to you, please organize yourself into groups of 2-3.

2. Each member will choose a different passage to read and make notes.

3. Find new members in the room that read the same passage as you.

4. This new group must decide on only 2-3 facts they will post on Padlet from the same passage.

Condensed Version
Please have one person enter the following link for your group.

https://tinyurl.com/y7pksrwg

OR

Please have one person use their phone or mobile device camera to scan the QR code below. Must have QR code application/extension installed on the device.
Posting on Padlet

1. Click the (+) sign in the lower right hand corner.

2. Enter the first names of your group members.

3. Enter the name of the passage read.

4. Post 2-3 facts your group agreed upon were most important.
Google forms provides students with an opportunity for self-reflection.

6th Grade Math
I can solve problems involving unit pricing and constant speed.
Solve the following

**Rate**

#1. Jaro took 7 hours to mow 4 lawns, at this rate, how many lawns could be mowed in 35 hours? At what rate were the lawns mowed?

**Unit Pricing**

#2. At the register, Kaylah noticed the hummus was on sale for 3 containers for $12. How much will it cost to buy 7 containers of hummus?
When you have completed both problems individually please enter/click on link below.

https://tinyurl.com/y9onvpa7
Quizizz
Gamified Classroom Quizzes!
contact@quizizz.com
Quizizz can be used as a whole class real-time assessment for learning.

You can select from 100’s of developed K-12 quizzes.

OR

You can develop your own.
Please enter the following url into your browser.

https://quizizz.com/join

How about some Chemistry...
How can I make my classroom discussions interactive?
Let’s take a look at Mentimeter.
Presentation #1
Presentation #2
Conceptual Shifts in NGSS (Appendix A)

1. K-12 science education should reflect the interconnected nature of science as it is practiced and experienced in the real world.

1. The NGSS are student performance expectations – NOT curriculum.

1. The science concepts build coherently from K-12.

1. The NGSS focus on deeper understanding of content as well as application of content.

1. Science and engineering are Integrated in the NGSS from K–12.

1. The NGSS are designed to prepare students for college, career, and citizenship.

1. The NGSS and Common Core State Standards (Mathematics and English Language Arts) are aligned.
Let’s explore one final digital tool using a natural phenomena!
Optical Illusions
Let’s try… dotstorming
Please click on the dotstorming icon

[dotstorming icon]

or

Enter the url below

https://tinyurl.com/ycauxxe9m
75 Digital Tools

https://tinyurl.com/yavlnhq7