



Technology for formative assessment in health education

Dr. Matthew Cummiskey
West Chester University

1

Poll Everywhere



- Create open or closed response polls or quizzes
- Free version does not include moderation
- Let's try one

Examples:

- Word cloud - Create an image composed of text words whose size corresponds to the frequency of submission.
 - What technology are you currently using in health ed?
 - When I say marriage, what comes to mind
- Clickable Image
 - On the muscle figure, which region corresponds to the trapezius?"



2

Poll Everywhere

- Open response back-channel questions students are afraid to ask in front of their peers
 - What questions about contraceptives do you have that were not asked
- Icebreaker – used to start a conversation
 - Tell me about a time you failed and why that failure was the best thing for you
- Upvote and Downvote – students submit responses and then upvote or downvote responses
 - “If fruits and vegetables are so important to your diet, why are they so drastically under consumed? Limit your response to five words.”
- Leaderboard - Ask respondents to vote for their favorite.
 - Which group’s skit best exemplified their assigned conflict resolution strategy

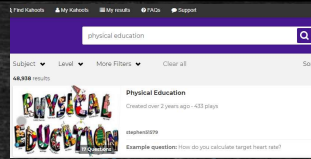
3

Poll Everywhere

- Emotional Scale - Allow students to pick one of five faces on a continuum ranging from full smile to full frown.
 - How would you rate your ability to administer CPR to an unconscious adult victim?”
 - How would you rate my lesson today?
- Brainstorm – students submit ideas and then vote for their favorite (similar to up/downvote but can only vote for one)
 - What is the best way you can personally address climate change?
- Ranking – put items in order
 - Put the following drinks in order from highest to lowest alcohol content
 - Put the following handwashing steps in the correct order

4

Kahoot



- Example of gamification which is infusing game like elements in education
 - Practicum example
- Great for pretests, formative assessments, exit tickets
- Afterwards, can download spreadsheet to see how individual students performed.
- Use as homework by having students create their own kahoot
- Require students to use first name, last initial. Can click on inappropriate names to delete them. Don't project kahoot until everyone has signed in
- Can search among already created ones as well (48K results!)

5

Interactive PowerPoint

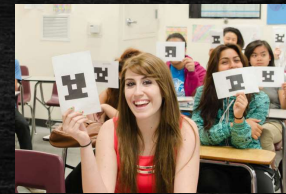
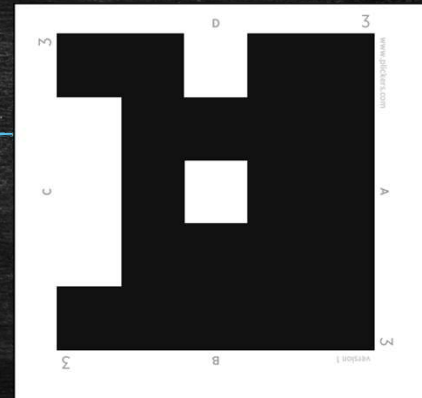
- Jeopardy Quiz
 - How to implement in class - Do in small teams, have them write the answer down on paper and rotate which team selects the "Answer"
 - Use "[Quiz Show](#)" template available when creating a new document



6

Plickers

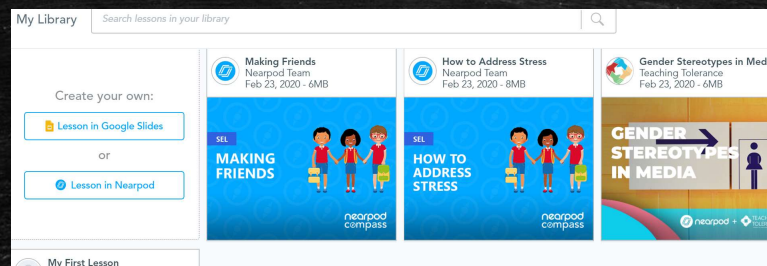
- Great formative assessment tool that DOES NOT need a device.
 - Can create MC or T/F questions
 - Can do survey if no correct answer specified
 - [How it works](#)
 - Suggestions for use: 1) print on card stock for reuse (don't laminate due to glare), 2) have students decide on answer & hold face down until the "reveal" (aren't allowed to change answers), 3) have students in Health "[sign out](#)" a card upon entering
 - Challenging to link plicker cards to individual student names in H&PE due to # of classes (lots of work)



7

Nearpod

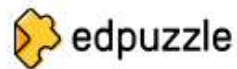
- What is it?
 - **Nearpod** is an interactive presentation and assessment tool that can be used to amazing effect in the classroom. The app's concept is simple. A teacher can create presentations that can contain Quiz's, Polls, Videos, Images, Drawing-Boards, Web Content and so on
 - Best feature: **self-paced lessons for students**



8

Ed Puzzle

- Crop and add questions to videos
- <https://edpuzzle.com/>
- Check if students are watching your videos, how many times they're watching each section



9

QR Codes

- Definition - machine-readable "quick reference" (QR) code consisting of an array of black and white squares, typically used for storing URLs or other information for reading by the camera on a smartphone
 - Use a QR Generator (i.e. Kaywa, GOQR.me, Visualead, QR Stuff) to create the code and save it
 - Use a QR Reader (i.e. QR Scanner, QR Code Reader, built in iOS Wallet app) to open the link.
 - [Example lesson](#)



10

Misc

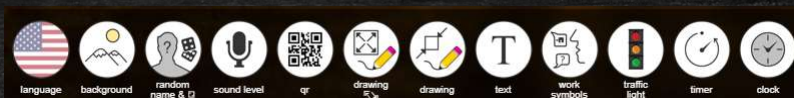


- [Net Smartz](#) ([Sample Video 1](#), [Sample Video 2](#))
- <https://darebee.com/> - amazing fitness resources
- [Block poster creator](#)
- [Class Dojo](#) – communication between parents and teachers, mostly used for class management (some gamification, avatars)
- [Noise Monitoring](#) – Bouncy Balls



11

Misc



- [Classroom Screen](#) – virtual whiteboard with other features
- [Random Name Selector or Group Creator](#) – when nobody will volunteer to answer or you want to keep students honest by cold-calling
- [Podcast Creator](#) – Anchor
- [Tammy's Tech Tips for Google](#) – really good stuff everywhere



12

G Suite - Docs

- Cloud-based version of Microsoft Office
 - <https://www.google.com/sheets/about/>
- Other uses
 - Collaborative Projects – Students can work together (8th grade drug presentation) and the teacher can provide immediate feedback
 - Activities
 - [Muscle Challenge Blank](#)
 - [Muscle Challenge Responses](#)



13

Google Blogger



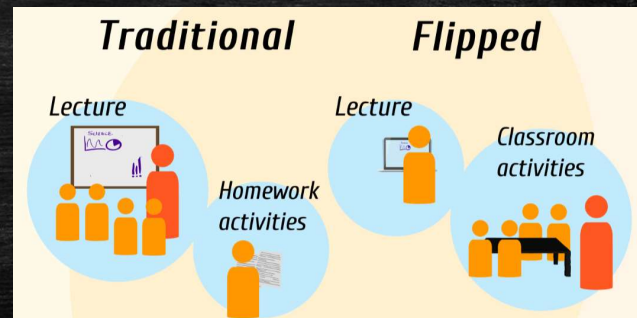
- Blogger – can create classroom blogs and share with a limited audience or the whole internet
 - Examples
 1. Blog about a field trip to health fair
 2. Post at least one question for a guest speaker
 3. Assign one student per class as the scribe on a rotating basis. That person would be responsible for taking notes and posting them in the blog. A rubric should accompany this responsibility.
 4. Current health blog – assign topic which students must blog about once or twice per week. Share at end of course
 5. Formative assessment – Best Summary - with five minutes remaining in class, split students into groups and have them summarize what they learned, WITHOUT notes, using a 100 word maximum blog. At the start of the next class, have students return to their groups, designate a reader to read the blogs and then using Poll Everywhere, rank them. Students may not vote on their own blog.

14

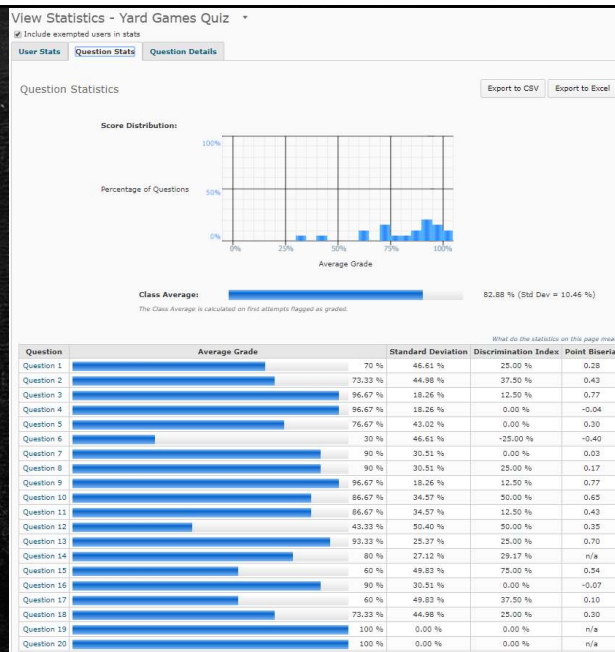
How can Learning Management Software (LMS) be used in your classes



- Flipped classroom – students learn the material first outside of class and then apply it.
 - Example: create a video about misleading advertising and have students analyze real-world ads in class
- Quizzes
- Dropbox, “Assignments”



15



Examine individual students (“users”) and questions

Note the Discrimination Index – “indicates how well a question differentiates between high and low performers. It can range from -100% to 100%, with high values indicating a “good” question, and low values indicating a “bad” question.”

16

Others to try if you have time

- Wizer – interactive worksheets
- Pear Deck – interactive presentations from any device; can bundle in formative assessments, discussion prompts, diagnostics, or exit tickets.
- GoNoodle.com – movement and mindfulness videos (similar to brain boosters)
- Flipgird – up to go second webcam videos

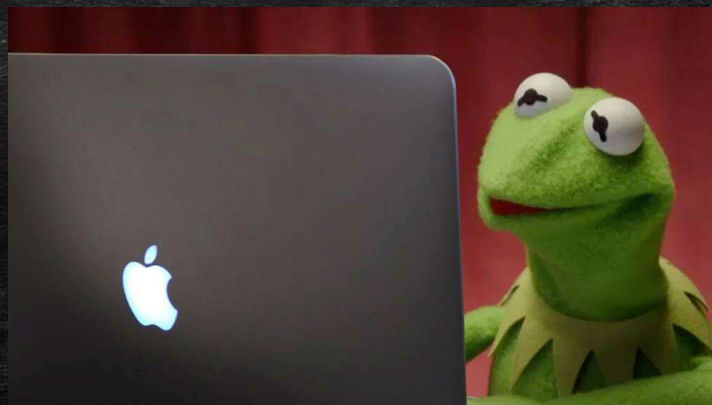


17

It's not easy being green...

Matthew Cummiskey

Email:
mcummiskey@
wcupa.edu



18