Presentation Link
Digital Tools for Engaging and Collaborative Formative Assessment

Vivian Johnson and Trish Harvey
Hamline University, School of Education
Innovate! Teaching with Technology
June 13, 2017
Goals for the session

- Share how formative assessment can be engaging and collaborative
- Explore technology-enhanced formative assessment
  - Backchannels
  - Student Response Tools
  - Concept Maps/Infographics
Backchannel Link

todaysmeet.com/Innovate

→ Questions?
→ Comments
→ Additions!
Pre-assessment

googl/yLPb2G

Google forms [video tutorial]
Flubaroo add-on [video tutorial]
Autocrat add-on
Uses of data...

1. Inform instruction
2. Collect data:
   - Wheeldecide (and Random Picker)
   - Word clouds
     - Tagxedo
     - Wordle
3. Provide feedback to student to guide their own learning
Formative Assessment

“assessment for learning”

rather than

“assessment of learning”

Designed to shape instructional decisions

latin root - assidēre - “to sit beside”
Why formative assessment?

Empirical evidence (1980’s forward)
- Informs instruction
- Improves learner achievement
- Supports metacognition

The Key Differences between Formative and Summative Assessment
Black and Wiliam

“The research reported here shows conclusively that formative assessment does improve student learning. The gains in achievement appear to be quite considerable ... among the largest ever reported for educational interventions.”

(Black & Wiliam, 1998, p. 61)

“... may be the most significant single factor in raising the academic achievement of all students - especially that of lower-achieving students.”
Benefits of formative assessment

- Use as a diagnostic tool
- Plan instruction
- Provide feedback to students and teachers
- Involve students in their own learning
- Motivate students

(DuFour, DuFour, Eaker, & Many, 2010)
“The simplest prescription for improving education must be ‘dollops of feedback’ – providing information how and why the child understands and misunderstands, and what directions the student must take to improve.”

- Hattie, 1999

“The most powerful single innovation that enhances achievement is feedback.”

- Marzano, et al. 2001
# Formative Assessment -
## How do we collect it without technology?

| Writing Task       | - Worksheets  
|                    | - Paper/pencil & pop quizzes  
|                    | - Exit tickets (cards)  
|                    | - Student journals  
|                    | - Homework  
| Orally             | - Classroom discussion  
|                    | - Four corners  
|                    | - Think-pair-share  
| Observation        | - Teacher observation  
|                    | - Fist to five  
|                    | - Four corners  

How do we collect formative assessment with technology?

Backchannels
Student Response Tools
Concept Maps/Infographics
Formative Assessment w/ Digital Tools

- Technology-enhanced
  - TIMELY data on learning (students & teachers)
  - Permanent record
  - Engaging
  - Making thinking public
  - Clear connection between the use of the technology and learning
  - Efficiency in data collection
  - Access to devices has increased
Backchannels

What they are:
  ● Real-time online conversation taking place alongside the primary activity

How they provide formative assessment:
  ● Questions/comments reveal interpretation of content
Backchannels

Example digital tools:

- Padlet
- Twitter
- Chatzy
- MeetingWords (not iOS friendly)
- Your institution’s Learning Management System (LMS)
- Tagboard (#194firstday example)
- TodaysMeet
TodaysMeet

todaysmeet.com/Innovate

➔ Our conversation
Backchannels

How could you incorporate backchannels into your teaching?

Share with a partner.

www.timer-tab.com
Student Response Tools

What they are:

● Engaging tools to collect polling and student feedback (i.e. quizzes)

How they provide formative assessment:

● Provide student feedback to adjust teaching
Student Response Tools

Examples of digital tools:

➔ Google Forms
➔ Socrative
➔ Formative
➔ Plickers
➔ Padlet
➔ Your LMS
➔ Kahoot and Quizizz

Polling tools:

➔ AnswerGarden
➔ PollEverywhere
Kahoot
Gamified formative assessment
kahoot.it

If you want to make a Kahoot -
getkahoot.com
Quizizz
website: join.quizizz.com
Student Response Tools

How could you incorporate student response tools into your teaching?

Share with a partner.
Concept map tools & Infographics

What they are:

● Visual representation of learning

How they provide formative assessment:

● Visual connection of vocabulary, concepts, etc

Resource: Infographics
Concept map tools

➔ Mindmeister
➔ Popplet (iOS friendly)
➔ Lucidchart (*google add-on)
➔ Bubbl.us

Infographics

➔ Google Draw
➔ PicCollage (iOS only)
➔ Thinglink
➔ Infogr.am
➔ Adobe Spark
➔ Canva
FORMATIVE ASSESSMENT

FORMATIVE ASSESSMENT IS NOT A PART OF THE GRADE PROCESS, BUT A PART OF THE INSTRUCTION PROCESS.

WITHOUT TECHNOLOGY

EXIT TICKET
PAIR SHARE
THINKPAIRSHARE
SUMMARIZE
COLORED PAPER
RED = I DON'T KNOW
YELLOW = PARTIAL UNDERSTANDING
GREEN = I KNOW THIS
TRY A WHITEBOARD SPLASH: SUMMARIZE LEARNING IN 10 WORDS OR LESS AND WRITE AS THEY LEAVE THE CLASSROOM.

USING TECHNOLOGY

1. GOOGLE FORM
2. POLL EVERYWHERE
3. CONNECTIVE
4. VOICE THREADS
5. IPHONE PICTURE
6. INFUSE LEARNING
7. SMARTPHONE

USE NOTES ON IPHONE / TABLET / IPAD.
SHARE WITH A FRIEND.
CHOOSE A TOOL TO THE INSTRUCT OR THE POST TO LINKED IN /
TABLET.

FOLLOW MY BLOG:
HTTP://WIIUDEDTECH.WORDPRESS.COM

Student examples

Student sharing Infographics
(Kansas State, Technology for Teaching course)
Make a mindmap...

Work with a partner or on your own using Bubbl.us to create a review of this presentation
Concept Maps and Infographics

How could you incorporate concept maps or infographics into your teaching?

Share with a partner.
Formative Post-Assessment

padlet.com/tharvey03/Innovate
Questions?

Thanks for coming!

Stay in touch...

Vivian Johnson, @VivianPJohnson, vjohnson@hamline.edu
Trish Harvey, @TrishLHarvey, tharvey03@hamline.edu
Additional Resources

33 Digital Tools for Formative Assessment
5 Fantastic, Fast Formative Assessment Tools
Over 35 Formative Assessment Tools to Enhance Learning Opportunities
3 Classroom Tools to Measure Student Learning
Top 100 Tools for Learning 2015
10 Fun-Filled Formative Assessment Ideas
Ten Reasons Google Drawings Should Be on Your Classroom Radar
18 Free Mind Mapping Tools for Teachers and Students