

Presentation Link





# **Digital Tools for Engaging and Collaborative Formative Assessment**

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Innovate! Teaching with Technology  
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# 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](https://todaysmeet.com/Innovate)

- Questions?
- Comments
- Additions!

# Pre-assessment

[goo.gl/yLPb2G](https://goo.gl/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



# 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)

# Marzano, DuFours, Hattie

“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	<ul style="list-style-type: none"><li>- Worksheets</li><li>- Paper/pencil &amp; pop quizzes</li><li>- Exit tickets (cards)</li><li>- Student journals</li><li>- Homework</li></ul>
Orally	<ul style="list-style-type: none"><li>- Classroom discussion</li><li>- Four corners</li><li>- Think-pair-share</li></ul>
Observation	<ul style="list-style-type: none"><li>- Teacher observation</li><li>- Fist to five</li><li>- Four corners</li></ul>

# **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](#)



# **Today'sMeet**

[\*\*todaysmeet.com/Innovate\*\*](https://todaysmeet.com/Innovate)

→ Our conversation

# Twitter

#hse7851

SHIFT

# Backchannels

How could you incorporate backchannels into your teaching?

Share with a partner.

# 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

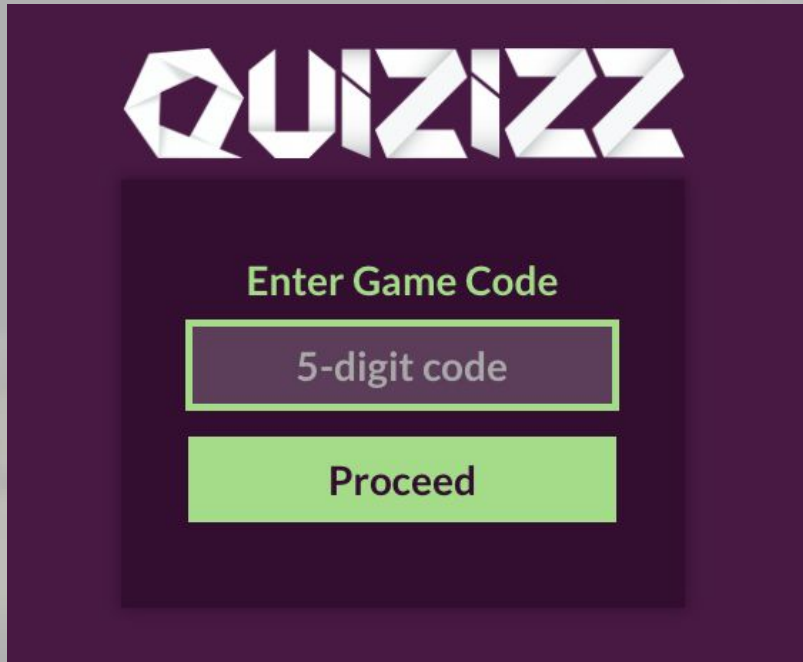
Gamified formative assessment

**kahoot.it**

If you want to make a Kahoot -  
[getkahoot.com](https://getkahoot.com)

# Quizizz

website: [join.quizizz.com](https://join.quizizz.com)



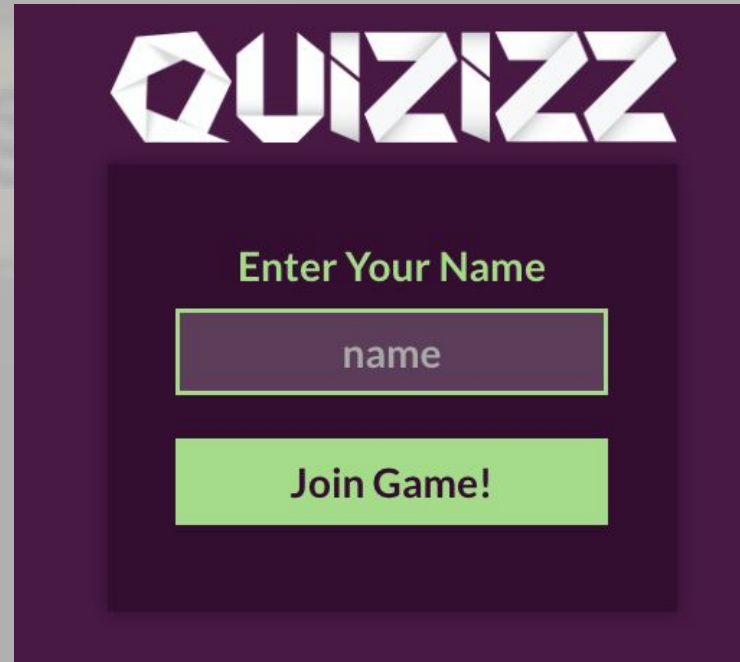
QUIZIZZ

Enter Game Code

5-digit code

Proceed

The image shows a dark purple rectangular interface. At the top, the word "QUIZIZZ" is written in a white, stylized, 3D-effect font. Below this, the text "Enter Game Code" is centered in a light green font. Underneath is a light purple rectangular input field with a thin light green border, containing the text "5-digit code". At the bottom is a solid light green rectangular button with the text "Proceed" in black.



QUIZIZZ

Enter Your Name

name

Join Game!

The image shows a dark purple rectangular interface. At the top, the word "QUIZIZZ" is written in a white, stylized, 3D-effect font. Below this, the text "Enter Your Name" is centered in a light green font. Underneath is a light purple rectangular input field with a thin light green border, containing the text "name". At the bottom is a solid light green rectangular button with the text "Join Game!" in black.

# Formative

[goformative.com/join](https://goformative.com/join)

Continue without logging in

\*feedback and returning scores are not available to guests

**XVXD637**

## Name Required

Provide your name to begin.

Begin



# Student Response Tools

How could you incorporate student response tools into your teaching?

Share with a partner.

**5:00**  
Stop

# 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



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

01. SOCIAL MEDIA  
02. POLYVALENT WHERE  
03. SENSITIVE  
04. TWITTER  
05. VOICE RECORDING  
06. MOBILE PHONE  
07. IMPROVE LEARNING

## SMART PHONE

USE NOTES ON PHONE  
TEXT AND EMAIL  
SHARE WITH FRIENDS  
PHOTO & VIDEO TO  
THINKS THROUGH ANY  
POSTING TO EMAIL OR  
TABLET

TWITTER  
CREATE A CLASS  
HASH TAG FOLLOW  
FOR  
CONVERSATION  
TWITTER CAN GO  
TWITTER HAS A  
TWITTER ASSESSMENT  
TECHNICAL

GRANT  
FOR  
TECHNOLOGY  
WILLIAM & JESSIE  
UNIVERSITY  
OF  
MICHIGAN

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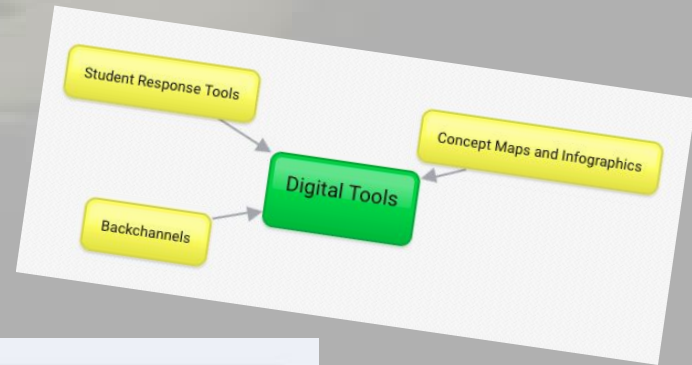
# Student examples

## [Student sharing Infographics](#)

(Kansas State, Technology for Teaching course)

# Make a mindmap...

Work with a partner or on your own using [Bubbl.us](https://bubbl.us) to create a review of this presentation



Try Bubbl.us without signing in

**START BRAINSTORMING** →

# Concept Maps and Infographics

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

Share with a partner.



**5:00**  
Stop

# Formative Post-Assessment

[padlet.com/tharvey03/Innovate](https://padlet.com/tharvey03/Innovate)



# Questions?

Thanks for coming!

Stay in touch...

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# 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](#)