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Using Google Forms to Inform Teaching Practices

Ha Nguyen Dr. Georgia Southern University, hnguyen@georgiasouthern.edu

Heidi Eisenreich Dr. Georgia Southern University, heisenreich@georgiasouthern.edu

Eryn Stehr Dr. Georgia Southern University, estehr@georgiasouthern.edu

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Using Google Forms to Inform Teaching Practices

Ha Nguyen, Heidí Eísenreich, Eryn M. Stehr, & Tuyín An Georgia Southern University

Purpose: This presentation discusses several uses of Google Forms to gather data, engage student learning, and create and score assessments. Additionally, participants will learn how to shorten an URL link with a desired name and generate a QR code for instant access to the link.

Using Google Forms to Benefit Classroom Environment

Getting to Know You Survey:

Please use the following link to complete a survey:

http://bit.do/stem18pre

QR Code:



http://bit.do/stem18pre

Benefit Classroom Environment

Ways to increase classroom environment:

- Surveying students outside of class
- Collecting responses in the moment
- Collecting self-reflections after a lesson
- Exit ticket
- Check student attendance, especially in large lecture hall classrooms

Benefit Classroom Environment

Part of a "Getting to Know You" Survey in Google Forms:

What are some of your interests and activities? *

Your answer						
Name the last math class taken and where (e.g., college algebra at GSU). *						
Your answer Indicate your math experience as a LEARNER in *						
indicate yo	Very negative	Somewhat negative	Neutral	Somewhat postitive	Very positive	
Grades K-5						
Grades 6-8						
Grades 9-12						
Current courses (in college)						

Why do you want to be a teacher? *

Your answer

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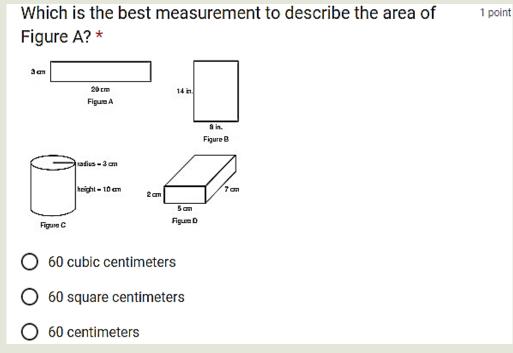
Using Google Forms to Benefit Learning

- Gauge students' pre-existing knowledge
- Identify misconceptions
- Engage students in discussion

Benefit Learning

Example of gauging students' pre-existing knowledge and identifying misconceptions: Question from Carnegie Learning (2011):

- Given prior a measurement lesson
- Half of the students correctly identified the appropriate units for Figure A
- Led to a discussion of dimensions and why units of an area are square but not linear nor cubic



Benefit Learning

Example of higher-order thinking:

Question adapted from Beckmann (2011):

- Non multiple-choice
- o 3 out of 23 answered correctly
- Instructor's perspective: Respond quickly to students' confusion

Which of the following describe the same area? (Type Opoints complete sentences; for example, "g and h describe the same area.") *

a) 3 in² b) A 9-inch-by-9-inch square c) 9 square inches d) A 3-inch-by-3-inch square e) 9 in. × 9 in. f) 9 in²

Your answer

 Students' perspective: Able to discuss the responses, confront their own conceptions and thinking and their classmates'

Benefit Assessment

 Please use the following link to complete a quiz: http://bit.do/stem18quiz



Benefit Assessment

- Allow faculty to assess how well students understand material
- Give students immediate feedback, allow them to begin questioning their understanding and asking for help

Settings					
GENERAL PRESENTATION QUIZZES					
Make this a quiz Assign point values to questions and allow auto-grading.					
Quiz options					
Release grade:					
Immediately after each submission					
O Later, after manual review Turns on email collection					
Respondent can see:					
✓ Missed questions ②					
Correct answers 🕜					
Point values 🕜					

Limitation of Google Forms

- Do not allow mathematical symbols
- No formatting options
- Students may get distracted easily when having their smartphones or laptops in front of them



Please take a moment to reflect on our session today:

http://bit.do/stem18ref

QR Code:



http://bit.do/stem18ref