Using Technology to Assess Learning in the Classroom

A workshop for Santa Monica College



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Session agenda

- Overview
- 1 Background Knowledge Probe + Kahoot or Pollev
- 2 Think Pair Share + Todays Meet or Twitter
- 3 Contemporary Issues Journal + NearPod
- 4 Concept Maps + Bubbl.us or Mindmup
- 5 Knowledge Grid + Google docs
- Wrap-up / Q & A

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BACKGROUND KNOWLEDGE PROBE

Kahoo

Poll Everywhere (pollev.com)

Instructions • Get in pairs, where at least one of you has technology with access to the Internet. • Visit tiny.cc/TechAssess1 • Answer the following questions as individuals or as a pair. Survey • What are the benefits of using technology for assessment in the classroom? Flexibility Speed Motivation • Other • What are the challenges of using technology for assessment in the classroom? • Ease of use · Prep time • Equity • Other Technology & Assessment Benefits and tips Benefits • Speed: Technology allows you to collect info quickly to assess what students already know. • Flexibility: You can come back to the responses right after the activity, again throughout the class, and after class for a deeper dive. • Equity: Not every student has a mobile device. Use small groups rather than requiring individual responses.

Discussion About the activity • Is this something you could use in your class? About the technology • What would you need to use this technology in your class? THINK PAIR SHARE (THINK TWEET PAIR TWEET) Today's Meet (todaysmeet.com) Twitter Technology & Assessment Instructions • Get in pairs, where at least one of you has technology with access to the Internet. • Visit tiny.cc/TechAssess2 • Answer the questions shown on the following slides Answer each question individually first • Example of different answers before discussion: #Question2.1: A, B • Discuss and then submit again • Example of the same answer after discussion: #Question2.2: A, A • In some cases you will be asked to submit written responses as a Example: #Question4: brief written response

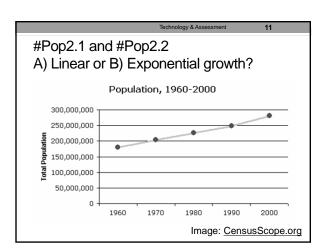
Question of the day

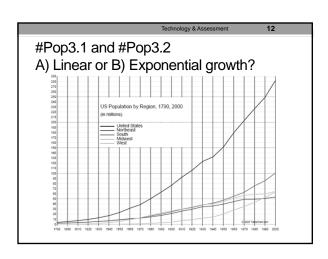
Answer individually first (#Pop1.1), then compare, discuss and submit your response (#Pop1.2)

- According to Census Bureau figures, the population of the United States grew at a rate of approximately 13.15% during the decade from 1990 to 2000.
- Based on this ten-year growth rate, please make a
 conjecture on whether the annual growth rate is equal to
 1.315%, i.e., whether you think that it is logical to infer that
 the annual growth rate is equal to one-tenth of the tenyear growth rate?

A) Yes or B) No

Activity source: Science Education Resource Center - Carlton College





#Pop4 • After making your decisions, please discuss your conjectures with your nearest neighbor and explain to each other your underlying reasonings. You don't necessarily have to agree with each other's assessments, but do have a candid discussion; you are free to change your initial reasonings in light of your neighbor's explanations • Afterwards, please record your conjectures and reasonings in written form. Benefits and tips Benefits • Collaborative learning: Students often improve their responses after being able to discuss with peers. • Self-assessment: Students answer individually first, then check themselves against their peers' responses. • Use this as a way to confirm students have done a reading and/or homework assignment. Technology & Assessment Discussion About the activity • Is this something you could use in your class? About the technology • What would you need to use this technology in your class?

Time to move! (discipline clusters) • Art, Arts, Design Sciences Humanities CTE programs Languages • Technology Social Sciences Business • Comm & Media Professional Training Psychology • Workforce Dev **CONTEMPORARY ISSUES JOURNAL** NearPod Show real-world connections • In small groups, assign a tech scribe. Collect & Select (2 min) • Select a broad topic from one or more of your classes. • Search the web for an image of a recent event related to that topic. Reflect & Share (3 min) • Visit tiny.cc/TechAssess3 • Post each image you find and write a brief reflection about how that image relates to the course topic. • Bonus points for connecting course topics to your daily life!

Benefits and tips Benefits • Integration: Students draw connections between course concepts and real-world events, concepts in other disciplines or their daily lives. • Manage time: Give clear time limits for each part of the activity. • IDEA: Assign bonus points for the first 3/4/5 complete entries that meet rubric criteria. Discussion About the activity • Is this something you could use in your class? About the technology • What would you need to use this technology in your Technology & Assessment **CONCEPT MAPS** C-Map / Bubbl.us

Technology & Assessment 2

Show the connections between ideas

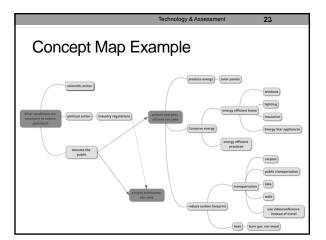
• In small groups of 2 to 4, assign a tech scribe.

Prepare (3 min)

- What conditions are necessary for reducing pollution?
 - Identify 5-10 concepts that are relevant to answering this question.(NOTE: Pick any lens: science, politics, etc.)

Create and share (3 min)

- Visit bubbl.us or mindmup.com
- Create a map connecting the concepts you identified
 - Add to example at <u>tiny.cc/TechAssess4-example</u>



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Benefits and tips

Benefits

- Non-linear: This allows students to show what they know in a different way.
- Collaboration: Using small groups allows all students to contribute. To promote this, require groups to use 3 ideas from each person, with no repeats.

Tins

- Variation: Consider having students create concept maps as homework, then discussing as a class.
- Create a rubric with 3-5 criteria and share before activity.
- Create your own map and show as just another example.

Discussion About the activity • Is this something you could use in your class? About the technology • What would you need to use this technology in your class? **KNOWLEDGE GRID** Google docs (spreadsheet) Technology & Assessment 27 Instructions \bullet Get in small groups, where at least one of you has technology with access to the Internet. • Visit tiny.cc/TechAssess5 • Fill in the assigned column of the Knowledge Grid as a team.

			Technolo	gy & Assessm	ent	28
Knov	vledge	e grid	– ver	b con	jugatio	on
	Team 1	Team 2	Team 3	Team 4	Team 5	Team 6
tense	present	present	present	present	present	present
verb type	regular -ar verbs	regular -er verbs	regular -ir verbs	irregular verbs	irregular verbs	irregular verbs
example verb	andar	correr	vivir	estar	ser	tenir
yo						
tú						
el, ella, usted						
nosotros						
vosotros						
ellos, ellas, ustedes						

Benefits and tips Benefits and tips Benefits Analysis: students differentiate, classify, or compare and contrast course concepts using the Knowledge Grid. Tips Use as a pretest to identify what students already know. Use as a note-taking strategy. Provide an empty grid as a handout for students to fill in as you progress through a lecture (individually or on teams), or as they progress through a recorded lecture or reading assignment.

Discussion About the activity • Is this something you could use in your class? About the technology • What would you need to use this technology in your class? **WRAP-UP** FSI 2017 Workshop - Assessment 33 Using technology for assessment Assessment Techniques we explored (just a few examples) • 1 - Background Knowledge Probe + Kahoot or Pollev • 2 - Think Pair Share + Todays Meet or Twitter • 3 - Contemporary Issues Journal + NearPod • 4 - Concept Maps + Bubbl.us or Mindmup • 5 - Knowledge Grid + Google docs

FSI 2017 Workshop - Assessment 34 Using technology for assessment In the classroom • Learning Assessment Techniques (just a few examples) Background Knowledge Probe (LAT 2) Poll Everywhere, Twitter, Socrative, NearPod Quotation Commentaries (LAT 13) Application Google docs Sequence Chains (LAT 22) Bubbl.us, mindmup (ti Integration Human Dimension Dramatic Dialogues (LAT Blog tool, 33) Proclamations (LAT 40) Google docs, VoiceThread Learning How to Learn Learning Goal List (LAT Today's Meet

Out of the classro	nology for asse	
Assess what domain?	Which technique?	Which technology?
Knowledge	Background Knowledge Probe (LAT 2)	Quiz
Application	Quotation Commentaries (LAT 13)	Google docs
Integration	Sequence Chains (LAT 22)	Bubbl.us, mindmup (ti
Human Dimension	Dramatic Dialogues (LAT 33)	Blog tool
Caring	Proclamations (LAT 40)	Google docs, VoiceThread
Learning How to Learn	Learning Goal List (LAT 47)	Today's Meet

Using tech	nology for asse	essment
In the classroom • Classroom Asse	n essment Techniques (ju	st a few examples)
Assessing what KSA?	Which technique?	Which technology?
Prior Knowledge	One-Minute Paper (CAT 6)	Twitter, Todays Meet
Synthesis/Creative Thinking	Concept Maps (CAT 16)	Bubbl.us, mindmup
Application	Student Generated Test Questions (CAT 25)	Facebook page, Google docs
Student Awareness of	Classroom Opinion Poll (CAT 28)	Poll Everywhere, Twitter, Socrative, NearPod

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Using tech	nnology for asse	ssment		
Out of the classroom				
	sessment Techniques (jus			
Assessing what? Prior Knowledge		Which Technology? Discussion forum (one		
Synthesis/Creative		minute thread) Bubbl.us, mindmup		
Thinking				
Application	Questions (CAT 25)	Google form or Google docs		
Student Awareness of Attitudes	Classroom Opinion Poll (CAT 28)	Quiz		
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FINAL (QUESTIONS	<u>'</u>		
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