Teaching in Virtual Environments

APRU Global Health Program at the University of Southern California

in collaboration with

Global STEM Education Program at the University of Oregon

August 27/28

Creative Ideas for Online and Remote Assessment Eleanor Vandegrift, University of Oregon Victor Hoe, University of Malaya

September 3/4

Authentic Experiential Education Eleanor Vandegrift, University of Oregon Vivian WY Lee, Chinese University of Hong Kong

September 10/11

Building Community in Remote Classrooms
Eleanor Vandegrift, University of Oregon
César Alberto Lucio Ramírez, Tecnológico de Monterrey



USC Institute on Inequalities in Global Health



Welcome and Introduction

Goals for today:

- 1. Provide pedagogical, technology, and peer support to faculty across the APRU network teaching remotely.
- 2. Create opportunities for APRU affiliated faculty to connect and share resources and experiences with assessments for remote settings.

Format







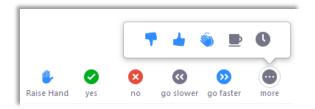
20-30 MINUTES EXPERT PANEL

30 MINUTES SMALL GROUP DISCUSSION

30 LARGE GROUP DISCUSSION

Interactions

Handraising and Feedback



Text on slide



Writing



Video and Audio



Breakout Rooms



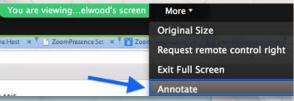
Chat

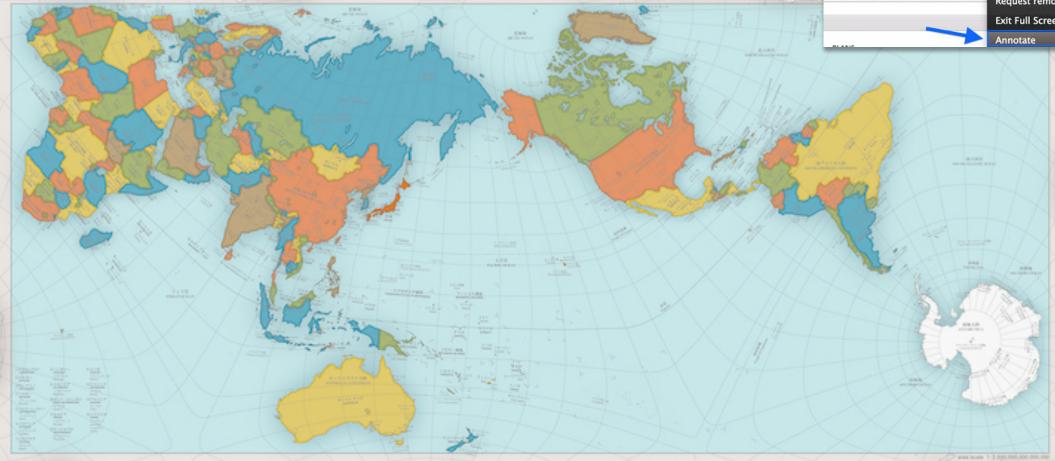


Which of the following types of assessments have you used?

- 1. Midterm exams
- 2. Final exams
- 3. Multiple-choice questions
- 4. Short answer responses
- 5. True/False questions
- 6. Essay exams
- 7. Practical exams
- 8. Research papers
- 9. Poster presentations
- 10. Presentations

Mark where you are today.





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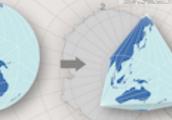
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ACCRECATION OF STREET ASSESSMENT

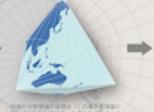
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AuthaGraph World Map



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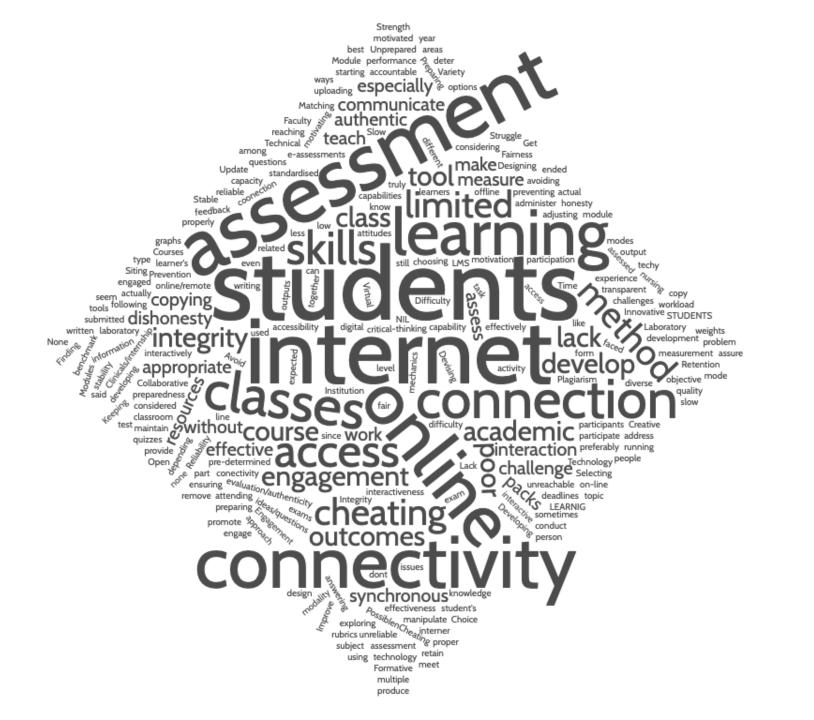
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A replangular world map is obtained by



MALLO CONTRACTOR The obtained rectangular world map. Its sepect ratio is /2 : 4.

Authagraph.com

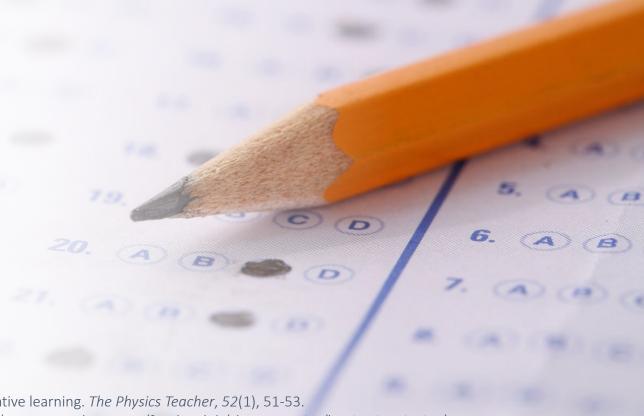


How can we reduce student pressure and increase the learning during exams?

Elly Vandegrift, University of Oregon

Three ideas for exams

- 1. Two Part Exams
- 2. Public Exams
- 3. Exam Wrappers



Wieman, C. E., Rieger, G. W., & Heiner, C. E. (2014). Physics exams that promote collaborative learning. *The Physics Teacher*, *52*(1), 51-53.

Wiggins, B. (2019). The Public Exam System: Simple Steps to More Effective Tests. https://www.coursehero.com/faculty-club/classroom-tips/benjamin-wiggins/
Lovett, M. C. (2013). Make exams worth more than the grade: Using exam wrappers to promote metacognition. In M. Kaplan, N. Silver, D. LaVague-Manty, & D. Meizlish (Eds.), Using reflection and metacognition to improve student learning: Across the disciplines, across the academy (pp. 18-52). Sterling, VA: Stylus.

Two Part Exams

Students take full exam alone (80% grade)

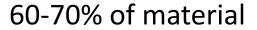
Students retake the full exam (20% grade)

During in class in groups

Resubmit answers online









Missing key elements



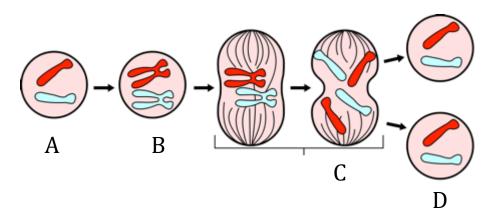
Posted for students for one week



Students provide feedback

Wiggins, B. (2019). The Public Exam System: Simple Steps to More Effective Tests. https://www.coursehero.com/faculty-club/classroom-tips/benjamin-wiggins/

Full Exam Question (Multiple True/False) For each answer, select True or False.



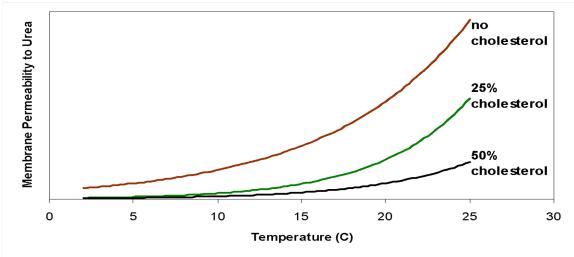
 _ This diagram represent mitosis.
 _ This process creates eggs and sperm that are ready for fertilization.
 _ In this image, at stage D the cells are identical to the cells at stage A
 _ In this image, the cells at stage D are diploid.
 In this image at stage C the chromosomes undergo crossing over.
In this image at stage B the cell is diploid.

Example (questions no image)

_ This diagram represent mitosis.
_ This process creates eggs and sperm that are ready for fertilization.
 _ In this image, at stage D the cells are identical to the cells at stage A
 _ In this image, the cells at stage D are diploid.
 _ In this image at stage C the chromosomes undergo crossing over.
In this image at stage B the cell is diploid.

Full Question: Two-tiered Multiple Choice Questions

Review the graph at right.

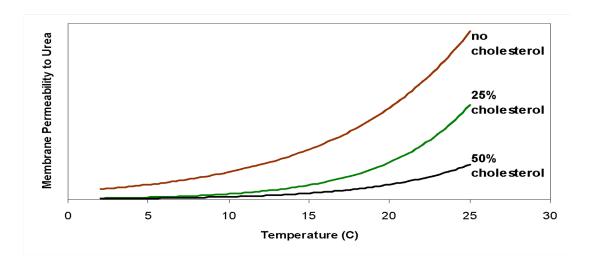


Which of the following passages describes the graph?

- A) membrane permeability to urea is only dependent on the amount of membrane cholesterol
- B) amount of membrane cholesterol is only dependent on membrane permeability to urea
- C) membrane permeability to urea is dependent on temperature and the amount of membrane cholesterol
- D) amount of membrane cholesterol and membrane permeability to urea are dependent on one another

Dirks, C., Wenderoth, M. P., & Withers, M. (2014). Assessment in the college science classroom. WH Freeman.

Two-tiered MCQ



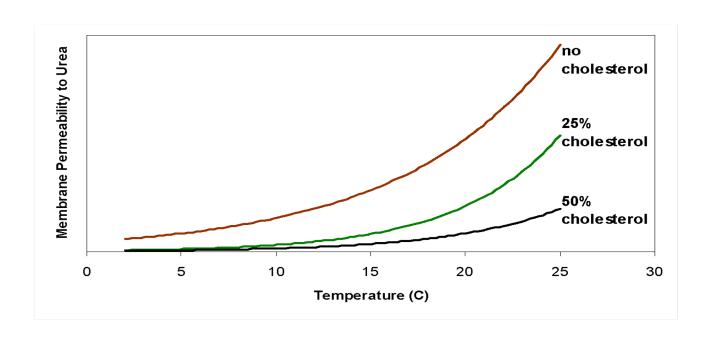
Which of the following best describes why you selected the answer that you did?

The graph shows . . .

- A) two dependent variables and one independent variable
- B) one dependent variable and two independent variables
- C) one dependent variable and one independent variable
- D) two dependent variables and two independent variables

Dirks, C., Wenderoth, M. P., & Withers, M. (2014). Assessment in the college science classroom. WH Freeman.

Example (figure no questions)



Dirks, C., Wenderoth, M. P., & Withers, M. (2014). Assessment in the college science classroom. WH Freeman.

Exam Wrappers -- Reflection

Before Exam

- I am MOST comfortable this content:
- I am still confused about this content:

• I plan to do the following before the exam:

Exam Wrappers -- Reflection

Before Exam

- I am MOST comfortable this content:
- I am still confused about this content:
- I plan to do the following before the exam:

After Exam

For missed questions

- I was confused about the facts
- I didn't study/review/practice this content enough
- I still do not understand this topic
- I did not follow the directions

Reflection

 How did you prepare for this exam/lesson/activity/class session?

Our experience in Malaysia

Final Examination

- Take Home Examination
 - Problem Solving Questions

- Two-parts Take Home Examination
 - Part 1
 - Problem Solving Questions
 - Part 2
 - Present the answer for the Part 1 which leads to the second Problem Solving Questions

Final Examination

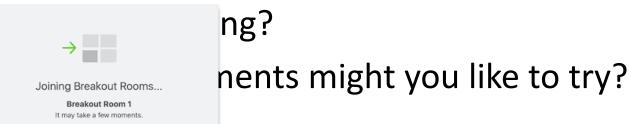
- Remote Examination
 - Questions can be Essay, Problem Solving, MCQ
 - Preparation before the examination
 - Direct observation using video conferencing software
- Issues encountered
 - Server downtime
 - Slow Internet Connections

Breakout Room Questions (30 minutes)

Introduce yourselves (Name + Institution)

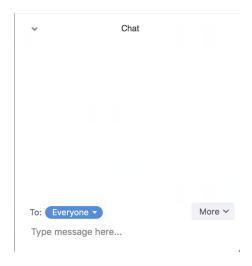
Questions

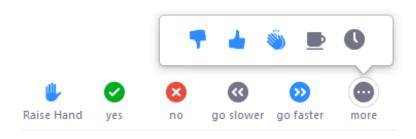
- 1. Which of the ideas presented could you implement in your courses?
- 2. What other ideas do you have for assessing your students' knowledge?
- 3. What concerns do you ha
- 4. What other types of lowe



Group Discussion

Report out
Chat #Ideas





Final Poll: Which of the following ideas from today would you like to try out?

- 1. Two-part exams
- 2. Public exams
- 3. Exam wrappers
- 4. Multiple True/False questions
- 5. Two tiered multiple choice questions
- 6. Take home examinations
- 7. Two-parts take home examinations
- 8. Remote examination

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