CTLT SUMMER INSTITUTE

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Assessment: More Than a Final Exam

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Why do we assess?

- Determine whether (and what) students are learning
- Rate or grade students
- Rate instructor or course
- Assist students in structuring their studying

Promote and reinforce learning

Why do YOU assess your students?

Reflection

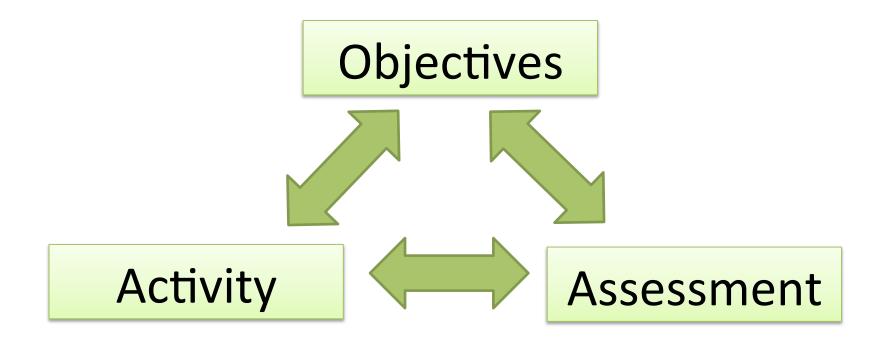
How do you currently assess your students?

How effective do you think your current assessments are? Why?

How do you choose what assessment to use?

Discuss with others at your table and write down common practices

Using Objectives to Guide Assessment Choices



Do your course objectives align with your assessments?

Write down your course objectives and indicate which assessment(s) they align with

Objective 1 Assessment 1
Objective 2 Assessment 2
Objective 3

About objectives

A learning domain/taxonomy is....

- Cognitive
- Affective
- Psychomotor
- For choosing assessments, learning domain levels are used to ...

Assessments, Learning Domains, & Levels

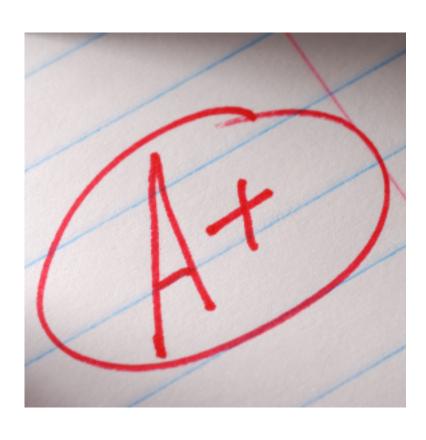
	Cognitive	Affective	Psychomotor
Low			
Medium			
High			

Multiple-choice quiz Essay

Blog

Multiple-choice quiz Multiple-choice quiz

Promising Practices

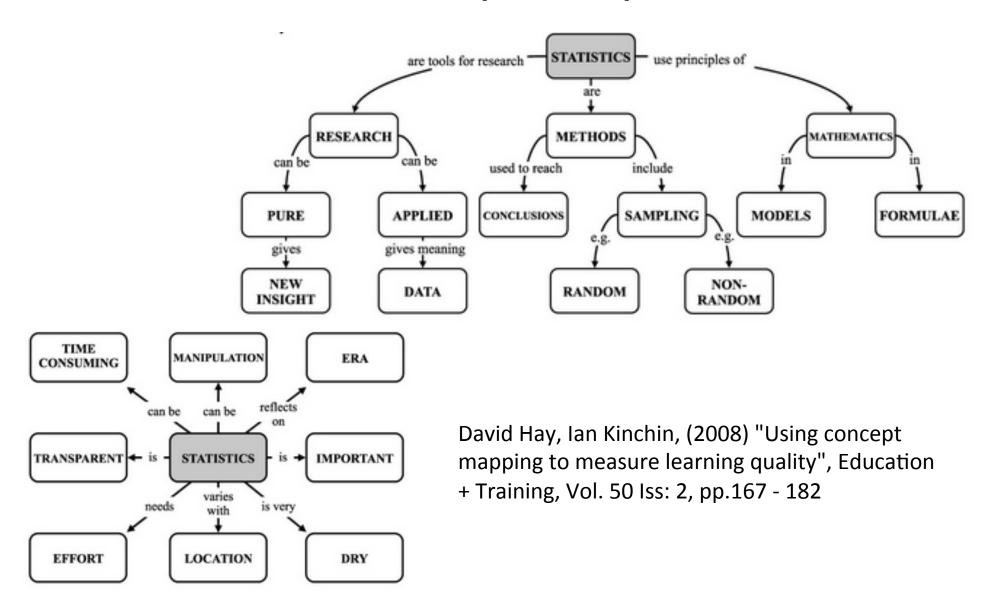


- Assess prior knowledge
 - Concept Inventories
 - Concept Maps
 - Reading Quizzes
- Seek feedback
 - Classroom Assessment Techniques:
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 - One Minute Paper
 - Critical Incident Questionnaire
 - Student Generated Questions
- Provide feedback
 - Peer Review
 - Rubrics
 - Connect Quizzes
 - Two-stage exams

Concept Inventories

- 1. Two ice cubes are floating in water. After the ice melts, will the water level be:
 - a. Higher?
 - b. Lower?
 - c. The same?
- 2. What is the reason for your answer?
 - a. The weight of water displaced is equal to the weight of the ice.
 - b. Water is denser in its solid form (ice).
 - c. Water molecules displace more volume than ice molecules.
 - d. The water from the ice melting changes the water level.
 - e. When ice melts, its molecules expand.

Concept Maps



-	BEFORE INTERVENTION	AFTER INTERVENTION	,
NON- LEARNING	PQ		knowledge structure remains unchanged
ROTE LEARNING	888		some prior-concepts are rejected and new ones are added, but no new links are made and the newly added concepts are not linked to the prior knowledge structure
MEANINGFUL LEARNING	900		new concepts are linked to the retained knowledge structure and new links are made between those parts of the prior knowledge structure that are retained
top (organising	a) concepts rejected conc	epts () retained concepts (added concepts

Reading Quizzes

Quiz questions were designed to be easy for students who did the reading, but difficult for students that did not.

Definition questions prepare students to use terms in class discussion.

Antagonistic muscle groups:

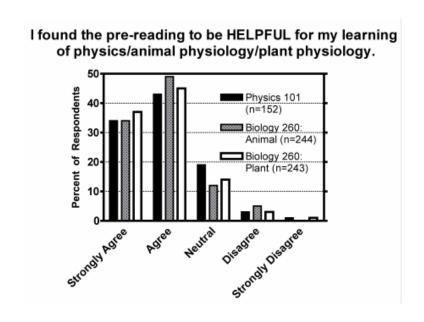
- a. are pairs of muscles that work together to move a bone back and forth.
- b. is made up of a flexor and an extensor
- c. have coordinated movement due to motor neurons
- d. all of the above

Referencing specific figures encourages students to actually open the book.

Look at figure 46.20. When a muscle fiber shortens (contracts) the:

- a. thick filaments shorten.
- b. Z lines shorten.
- c. thin filaments shorten.
- d. interaction of actin and myosin propels the thick and thin filaments past each other.

"I know that if I complete the pre-reading I will better understand what is going on in the lecture as well as I can figure out where I need to pay the most attention and potentially ask questions."



http://www.cwsei.ubc.ca/Files/EOY/EOY2013/ Posters/Banet-Heiner_Pre-Reading_CWSEI-EOY2013.

Classroom Assessment Techniques

What was the 'muddiest point' for you today?

One-Minute Paper

- 1. What is the most important thing you learned today?
- 2. What question remains uppermost in your mind?

Critical Incident Questionnaire

- 1. At what moment this week were you most engaged as a learner?
- 2. At what moment this week were you most distanced as a learner?
- 3. What action or contribution taken this week by anyone in the course did you find most affirming or helpful?
- 4. What action or contribution taken this week by anyone in the course did you find most puzzling or confusing?
- 5. What surprised you most about the course this week?

Student Generated Questions

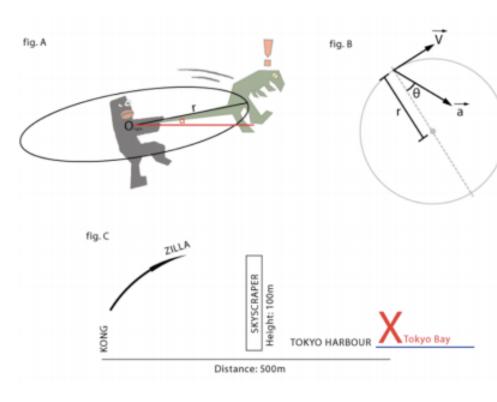


FIG. 2. Diagram accompanying Godzilla question.

... At this instant, Kong releases his grip on Godzilla's tail, attempting to hurl him into the bay, 500m away, denoted on figure 3 by a big red X. However, exactly halfway between Kong and the bay is the last remaining sky- scraper in downtown Tokyo (the monster brawl having destroyed the rest). The skyscraper is 100m tall.

a = 60 m/s2

r = 70 m

 α = 45 degrees θ = 20 degrees

Given the above values of a, r, α and θ , and assuming that the height of Kong is negligible when Godzilla is launched (i.e. assume Godzilla is launched from ground level) what happens to Godzilla?



.aacu.org/value/rubrics/

	4	3	2	1	Thesis stat	eman				
Introduction (Organization)	The introduction is inviting, states the main topic and previews the structure of **-	The introduction clearly states the main topic and previous hesis statemen	The introduction states the table the States the m	ain idea or claim of	States the n claim of the Mark:	nain idea or argument	10 9 Clear thesis state	8 ement	7 6	5
C12	at uics 1	acks of an	2	40	support the a	reasons eloped rgument O) 9 sar development ement	8	7 6	clarity 5 4 opment acks clarity
n the explana What is the th	nesis? In your	OWII W		Paragra	nnization of id corder as state de developme /10	nt Ideas at	9 8 Te presented in e order as thesis & nent	7	6 5 Ideas are gen presented in th	4 erally e same
-	the paper is	oapitalization or punctuation, but the paper is still easy to read.	few errors in capitalization and/or punctuation that catch the reader's attention and interrupt the flow.	in capitalizatir and/or punctuatic		paragraphs 10 9	20	7	thesis & develop 6 5 50% of the writing organized into paragraphs	in the pment
Spelling Conventions)	errors in grammar or	errors in grammar or	Writer makes 3-4 errors in grammar or spelling that	Mark	/10	The sentences : are grammatica	are clear and lly correct.	[′] 6	5	4 3 The s

Create Question >

Calculated Formula

Calculated Numeric

Either/Or

Essay

File Response

Fill in Multiple Blanks

Fill in the Blank

Hot Spot

Jumbled Sentence

Matching

Multiple Answer

Multiple Choice

Opinion Scale/Likert

Ordering

Quiz Bowl

Short Answer

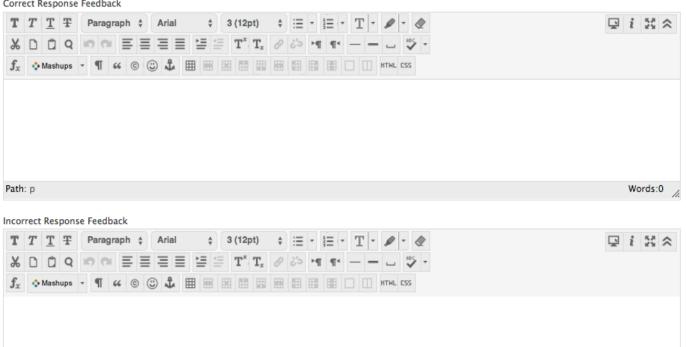
True/False

4. Feedback

Path: p

Enter feedback that will display in response to a correct answer and an incorrect answer. If partial credit is allowed, answers that are partially correct will receive the feedback for an incorrect answer.

Correct Response Feedback



Words:0

Question 1 10 out of 10 points



Dark matter is unknown matter that may constitute up to 75 percent of the matter of the universe.

Selected Answer: False

Response Correct. While this won't be covered in class, you need to know the actual number cited in your Feedback: text for worksheets and exams. Be sure to review section 3.2 (starting on page 170) for the

exact information.

Question 2 12.5 out of 25 points



Match the correct satellite with the correct planet.

Question Selected Match

Mars a. Mimas

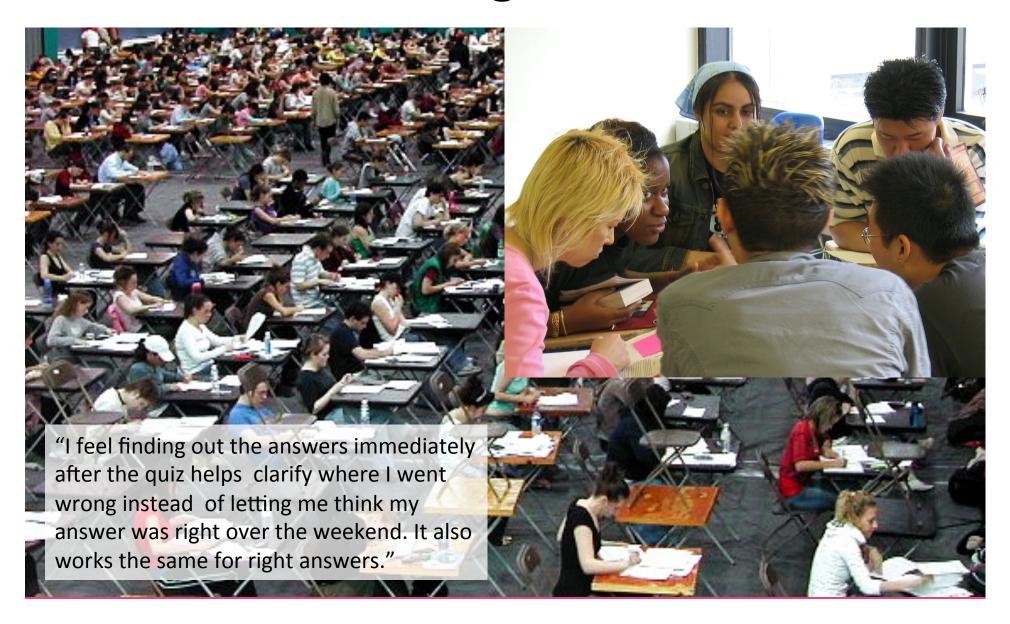
Saturn b. Phobos

Earth c. Luna

Jupiter d. Ganymede

Response This information is covered in Figure 7 (p. 192) of chapter 3. Please review and memorize all planets and their satellites.

Two Stage Exams



Reflection

Which of these practices might be useful in your course?

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Reflection

Look at your original list and, specifically, areas you thought might not be effective.

How could you apply concepts from this workshop to improve these areas?

Resources

- CTLT offers consultation on course design (including assessment)
- Library helping develop research

