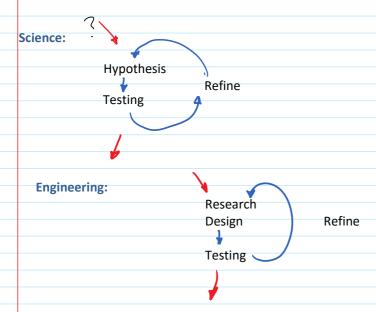
2016 Day 2

Today: Assessments and Active Learning (Clickers) Wednesday: Practice teaching sessions

When do you decide what tests to run?



What assessments should I use?

To find the answer to that, you need to consider

- •What are assessments that align with my learning goals and key concepts?
- •What kinds of outcomes can I measure?



Image: Gabriel Pollard



Group brainstorm: Why do we assess?

We have to; it's a requirement; university, accreditation

Habit

Does what is in our brain go into students' brains

To check mastery before going on

To reward, or acknowledge effort or mastery

Feedback for students

Feedback for instructors

Accountability

Motivate students

Helps with funding (standardized tests)

Helps students know what is important; practice

What are the expectations of students

To evaluate students performance

To evaluate the professor's performance

Generate the bell curve

To guide the lesson plans

To help students know what to study

Highlight important concepts

Previous years'

Students won't learn if we don't assess them

They get points

Motivation to keep up, not procrastinate

To evaluate and discriminate between good and bad students

Accreditation requires it

They can learn from exam itself

Helps us know if they are learning

Can be used to evaluate teaching quality

Unreflective tradition. Happened to us, we'll do it to them.

Encourage students to learn independently

Helps them know what they don't know, identify weaknesses

To help students make life choices, professional direction decisions

Can be used to guide teaching direction

To help students pass their exams

To help us point out what is important

Promote higher level thinking

Continuous assessment empowers students to have a voice in their curriculum

To engage students for their creative thought

To get better at teaching to find out how much info students actually got give institution credibility reinforces content for students to rank students see if LO's were achieved to find where to improve to motivate students to see if they're ready to go on to next concept

See what level the class is at, starting and at end to measure improvement

To assign grades
People pay to be graded
People want?

Metric to rank students
Politics
Societal expectation

Measure performance of students
Measure performance of teaching (accountability)

To improve teaching effectiveness

Part of feedback loop

To vary classroom dynamics; improve engagement

To understand different levels within class

Why do we assess / question?

- •Gather evidence on student learning (evaluation)
- Improve a course
- Improve our teaching
- •Improve society (?)
- •Get feedback on student understanding
- •Elicit misconceptions

Guide teaching

Guide improvements

- •Guide your own instructional decisions
- ${\bf \cdot} {\bf Make\ expectations\ clear\ to\ students}$
- •Provide feedback to students

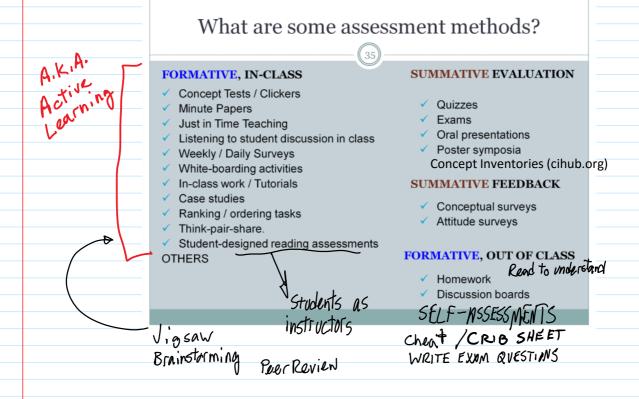
Guide students

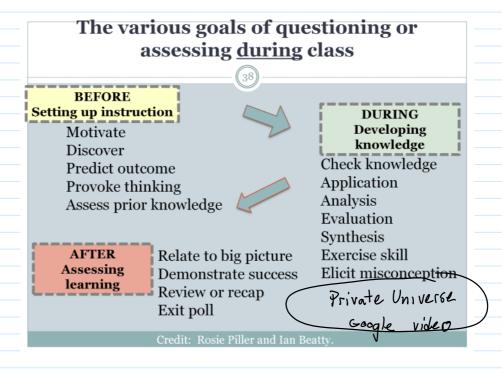
- •Give students an opportunity to gauge their progress
- •Help guide student studying and learning behavior

When can we assess students?

- Course-scale: Before or after a course.
- Class-scale: Before, during, or at the end of a class

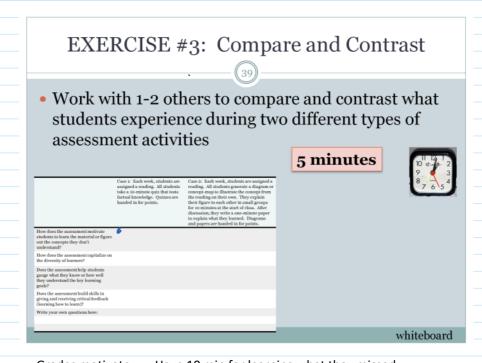
A bit of Jargon:
Formative vs.
Summative Assessment





Classic Minute Paper:

- 1) What was the most important thing you learned today?
- 2) What do you still have questions about?



Grades motivate
Question may
Could just get info from neighbors. Maybe not sustainable.

Additional link could diffuse info
Whether they
know the facts
Staged points; diagram graded separately
Depends on grading policy
Conversation alone can help slackers, and prepared ones.
Could bore prepared people
Depends on type of reading. Not much to discuss in factual reading.

Slackers will be punished Group discussion, all will benefit from pooled knowleven slackers will get something Each student will have a different concept map They will get some feedback Depends on well written quiz Feedback not likely immediate No Yes, some peer feedback, and teacher feedback Relationships between concepts seen as valued Class size; hard to assess 300 papers Tradition Will help attendance if nothing else Does it promote metacognitive skills? Group discussion, all will benefit from pooled knowlete feed something Each student will have a different concept map They will get more detailed feedback. Can judge quality of understanding from quality of concept maps Takes more resources to grade. Maybe way more. Need a rubric, or just give participation points 1, yes some, but 2 is better Depends on concept map structure		It's all about points, to read. No detailed feedback	Have to be able to articulate and contribute.
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Depends on concept map structure	Why do 1 not 2?	Tradition	, , ,
Depends on concept map structure	Does it promote me	etacognitive skills?	1, yes some, but 2 is better
Does it build on prior knowledge?			Depends on concept map structure
	Does it build on pri	or knowledge?	