Assessment: The silent killer of learning





Assessment: The silent killer of learning





poco rit. ecel. kosten 1. die Kosten (pl.) 1. die Krankheit, 7, en 2. kostbar -lich 455 COW 423 377 magnificen/ think landid gla \$30 der Kellner. 1. magnific das Kind, \((e)s, 128 2. master 1. der Keller, \s, kennen irreg. kannte-gekannt . kennen-lernen 2. kindlich 2. erkennen 3. bekan



35% retained after Week

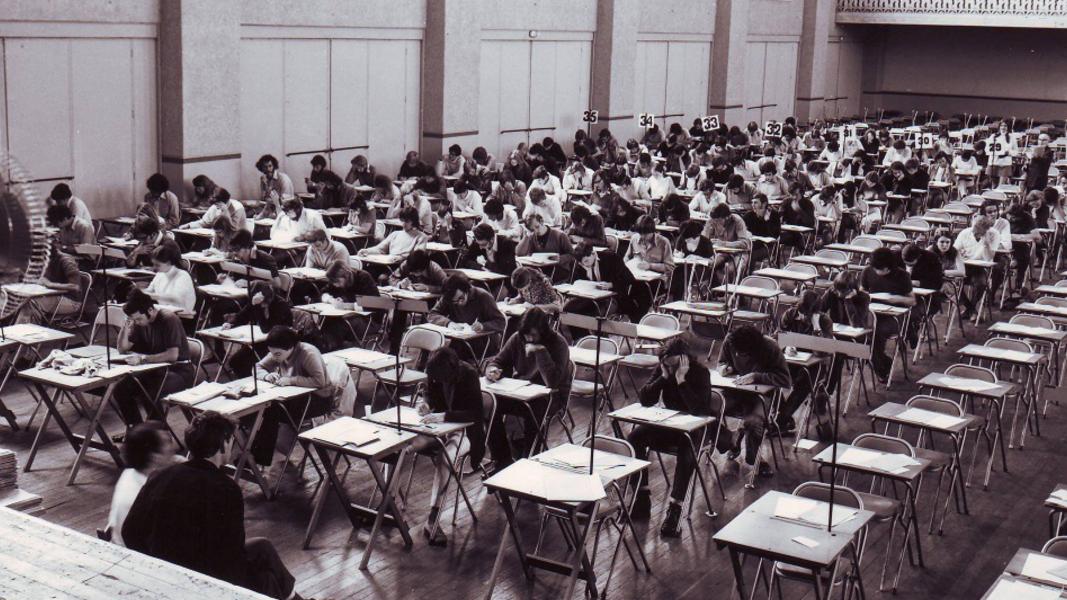
we only guarantee they'll pass the test



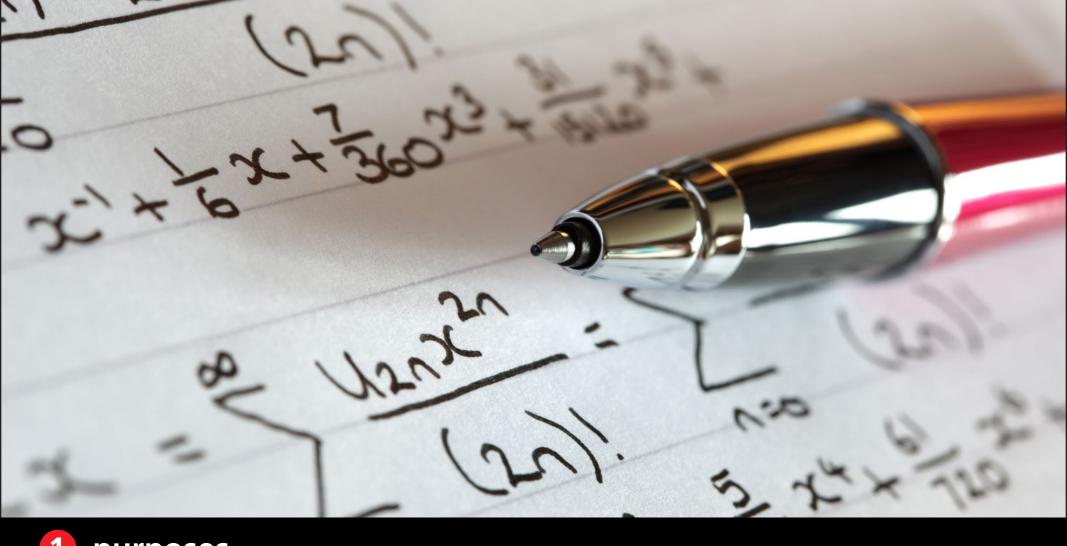
















problems

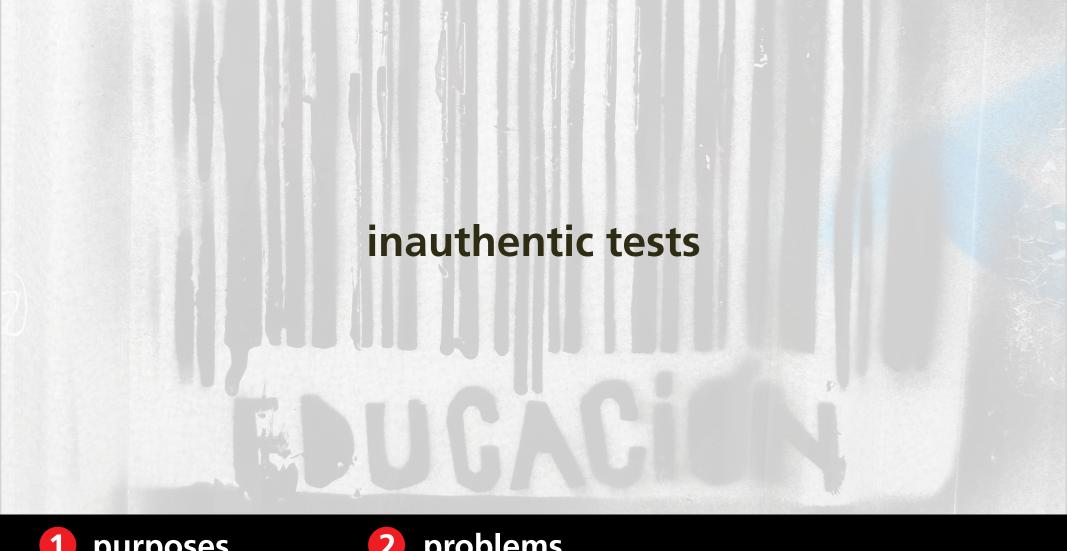
improvements

how many different purposes of assessment can you think of?

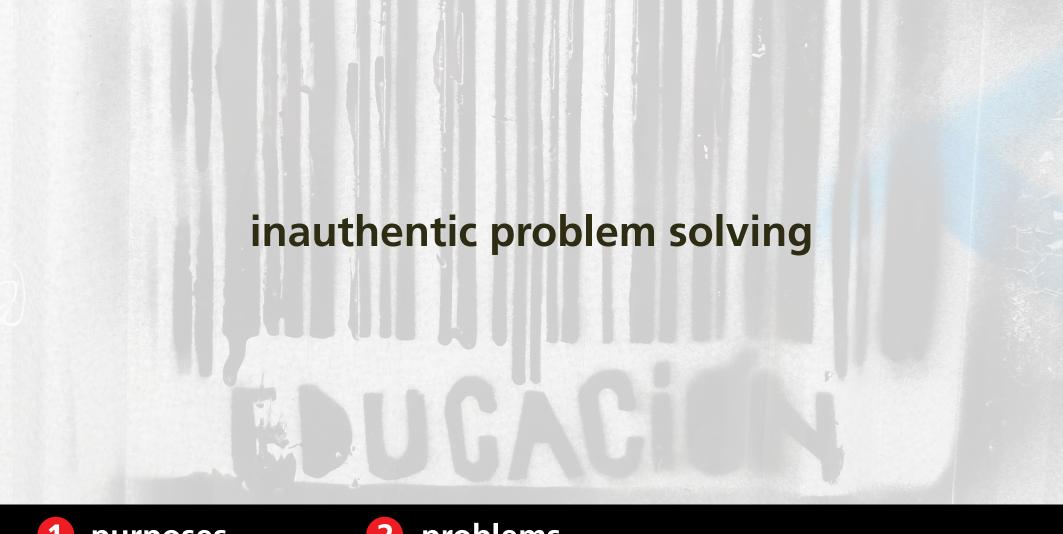
- 1. rate students
- 2. rate professor and course
- 3. motivate students to keep up with work
- 4. provide feedback on learning to students
- 5. provide feedback to instructor
- 6. provide instructional accountability
- 7. improve teaching and learning

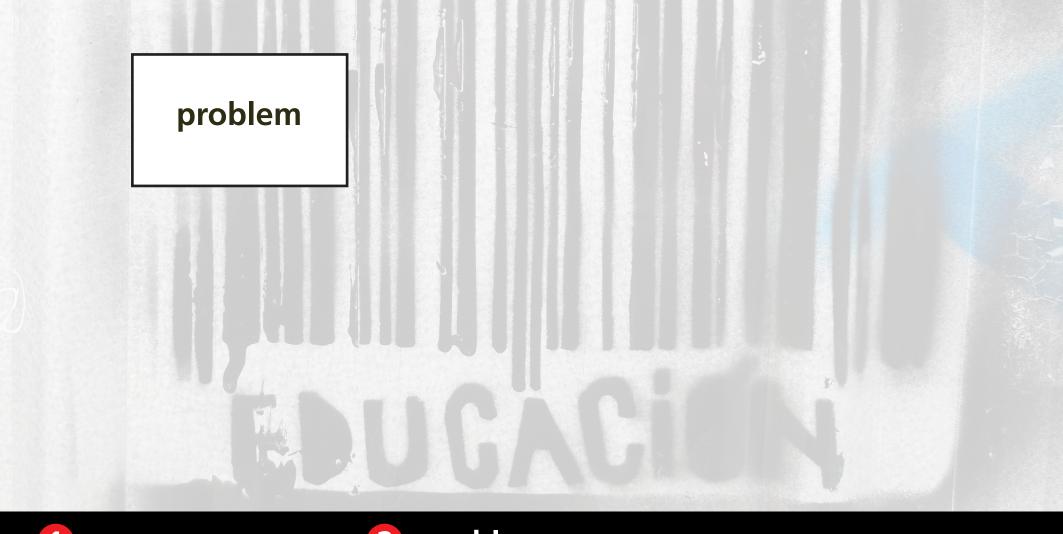


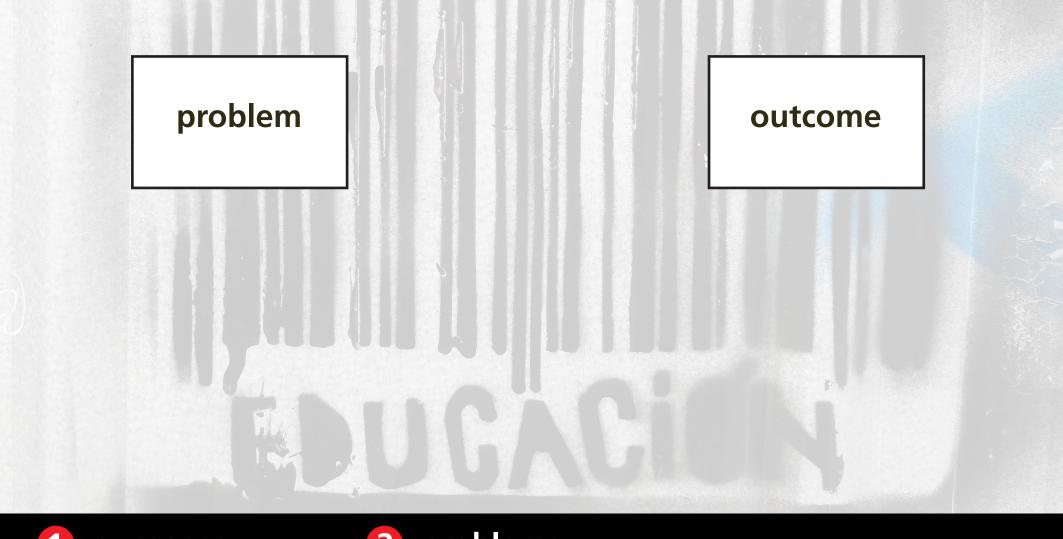


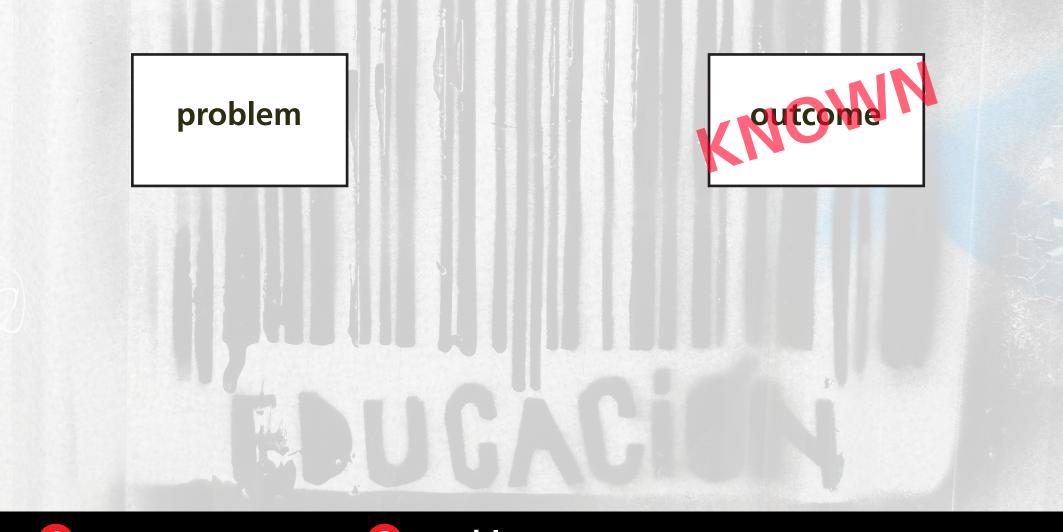


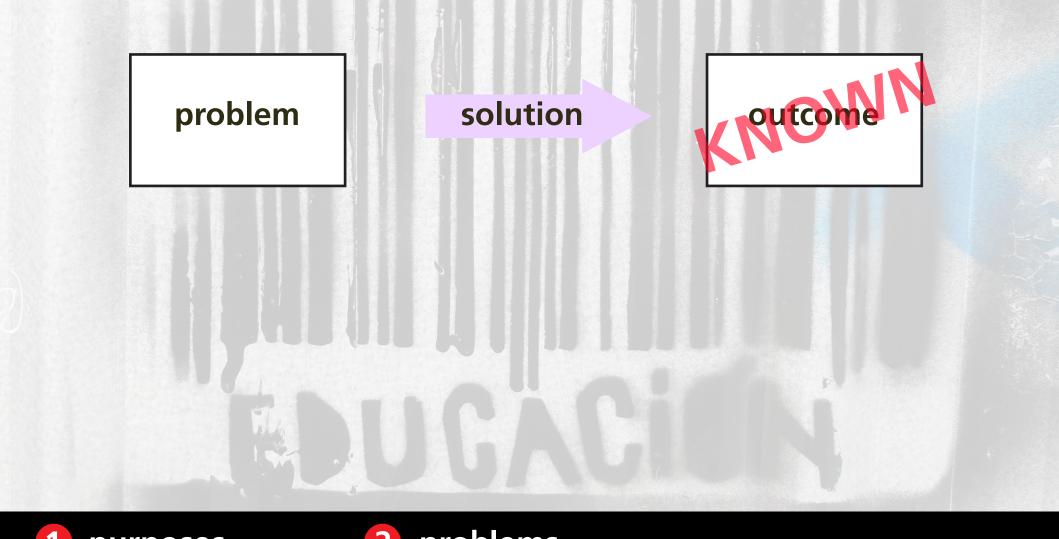
what is the meaning/definition of...?

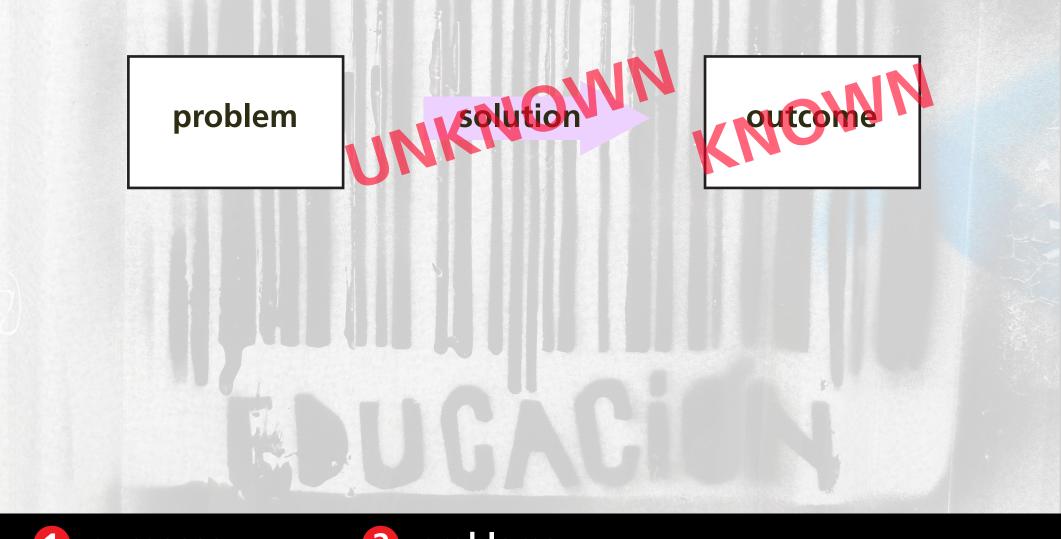


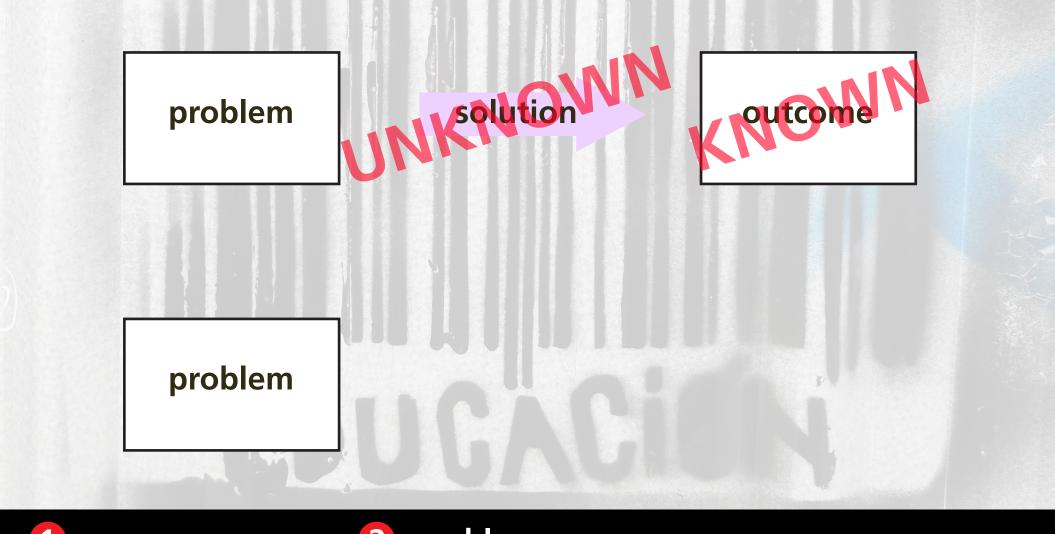






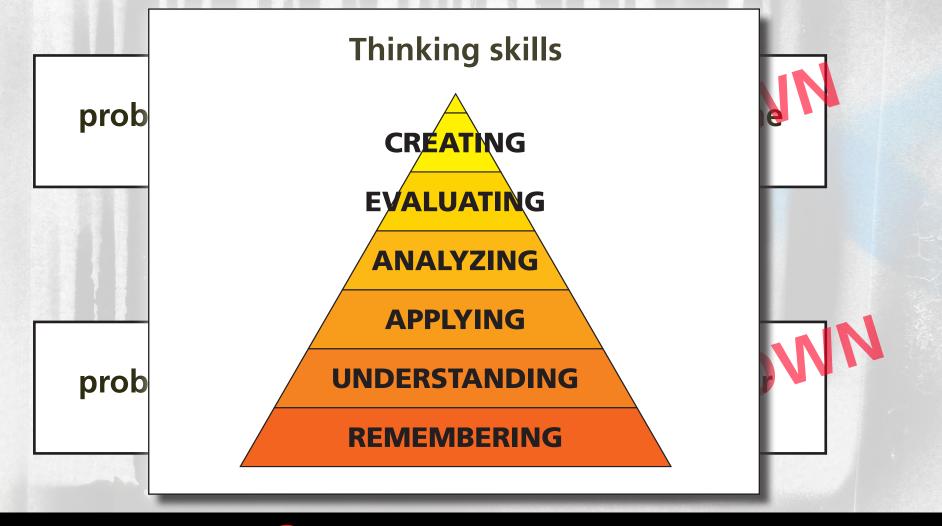












How long do you have to wait before someone frees up a space?

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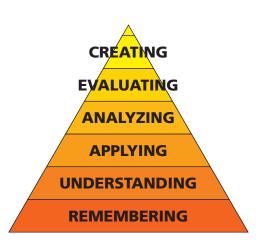
Requires:

Assumptions
Developing a model
Applying that model

How long do you have to wait before someone frees up a space?

Requires:

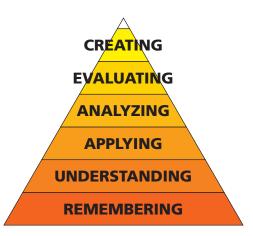
Assumptions
Developing a model
Applying that model



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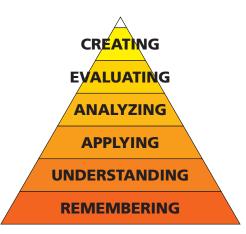


On a Saturday afternoon, you pull into a parking lot with unmetered spaces near a shopping area. You circle around, but there are no empty spots. You decide to wait at one end of the lot, where you can see (and command) about 20 spaces. On average people shop for 2 hours.

Assuming people leave at regularly-spaced intervals, how long do you have to wait before someone frees up a space?

Requires:

Assumptions
Developing a model
Applying that model

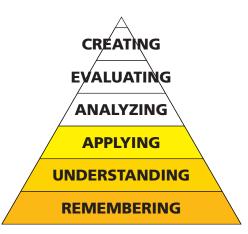


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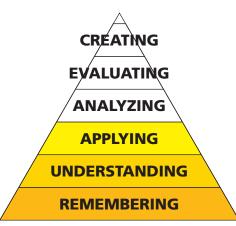
CREATING
EVALUATING
ANALYZING
APPLYING
UNDERSTANDING
REMEMBERING

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How long do you have to wait before someone frees up a

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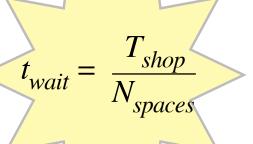
$$t_{wait} = \frac{T_{shop}}{N_{spaces}}$$

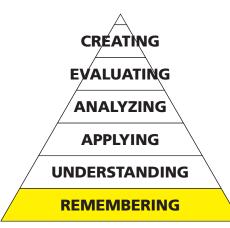


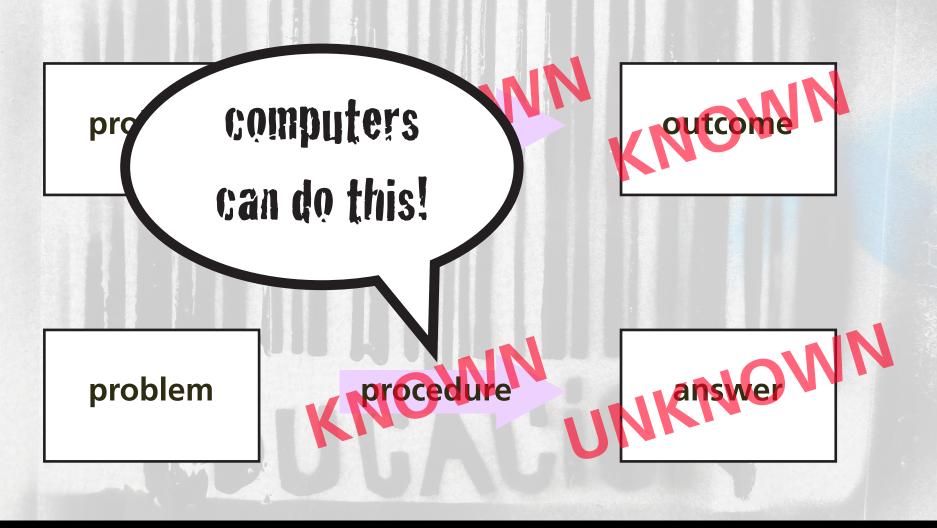
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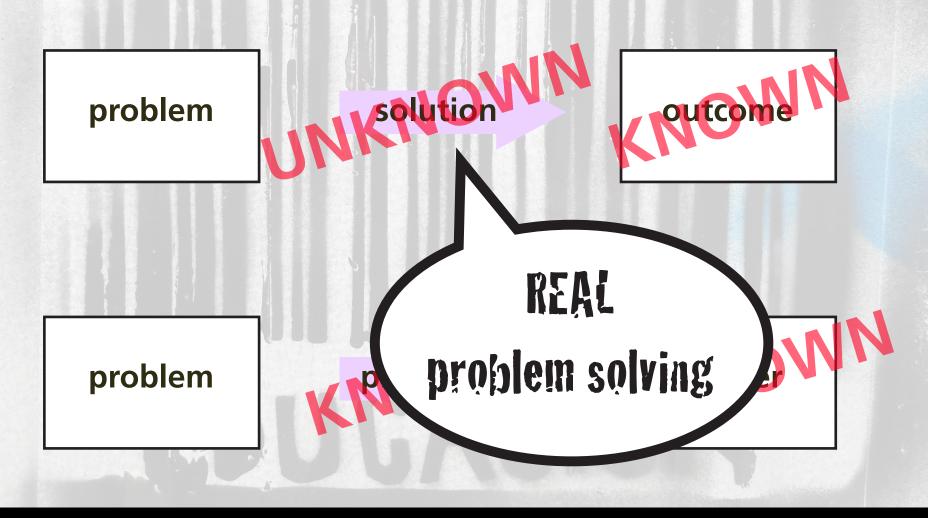












problem

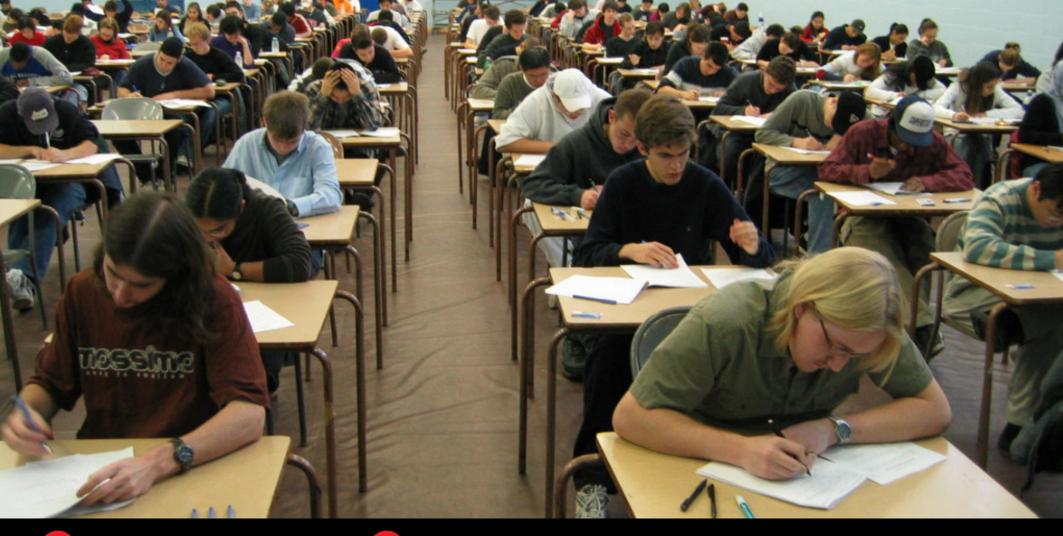
approach 1

approach 3

approach 2

outcome

grading incompatible with real problem solving





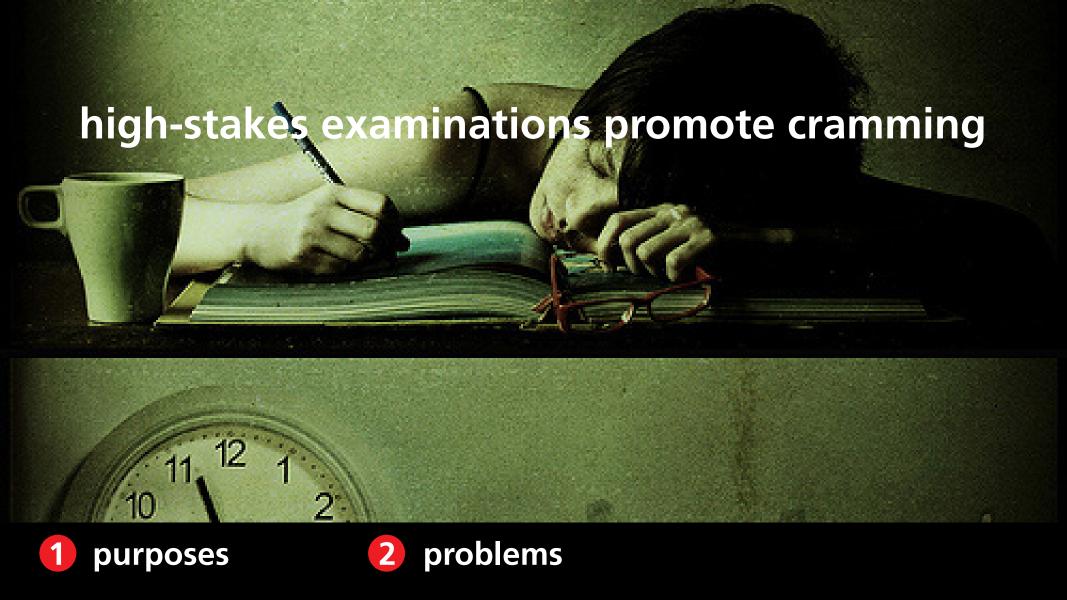
Math. 302-02, Final Ham

(4) We will use spherical coordinates:

$$0 < 9 \le 44$$
, $0 < \theta \le 2\pi$, $0 \le 0 \le 10$ The integral is thus:

 $(2\pi)^{2\pi} (2\pi)^{2\pi} (2\pi)^{2\pi}$

purposes



information stored in short-term memory





scribe the Law of conservation or mass. John Times Care Law, States that wass or WILL YEMMIN CONSTANT, Y-PANYOLASS OF the Process measure of standing relative to others

ist the three important concepts that the three important concepts the three impo + ner mody Namics (bovINA) the the Law of definite composition (Dalton's Law): wound always contains exactly the a dude at aparty Las problems purposes

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flection on what has grades: feedback: reflection on what has been learnt the the Law of definite composition (Dalton's Law): Thermody Namics (box). wound always contains exactly the

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scribe the Law of conservation or mass. Sometimes Care LOW, States that mass or a co WILL YEMMIN CONSTANT, Y-PANYOLASS OF the Process List the three important concepts that the three important concepts the three important Equilibrium (boring) Ther mody Na roach or judge? Law:

The the Law of definite composition (dge? Law): wound always contains exactly the a dule at aparty Las problems purposes

scribe the Law of conservation or mass. Sometimes Care LOW, States that mass or a co WILL YEMMIN CONSTANT, Y-PANYOLASS OF the Process Conflict resolved by:

List the three important concepts that the conservation of Energy leads to: ist the three important contact (boy Ng)

For objectivity (fairness, reliability)

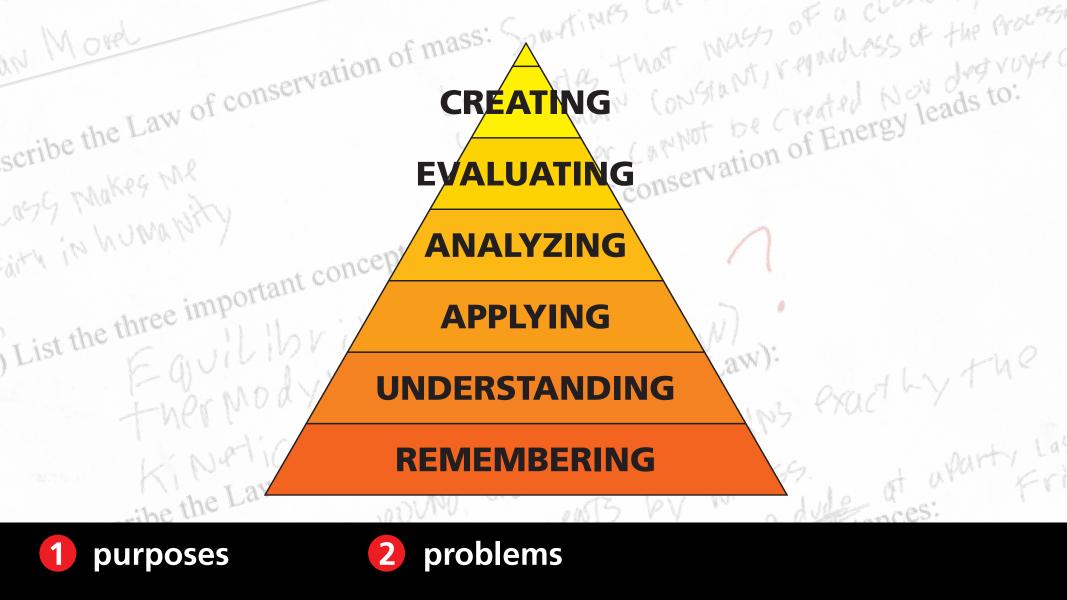
The the Law of definite composition

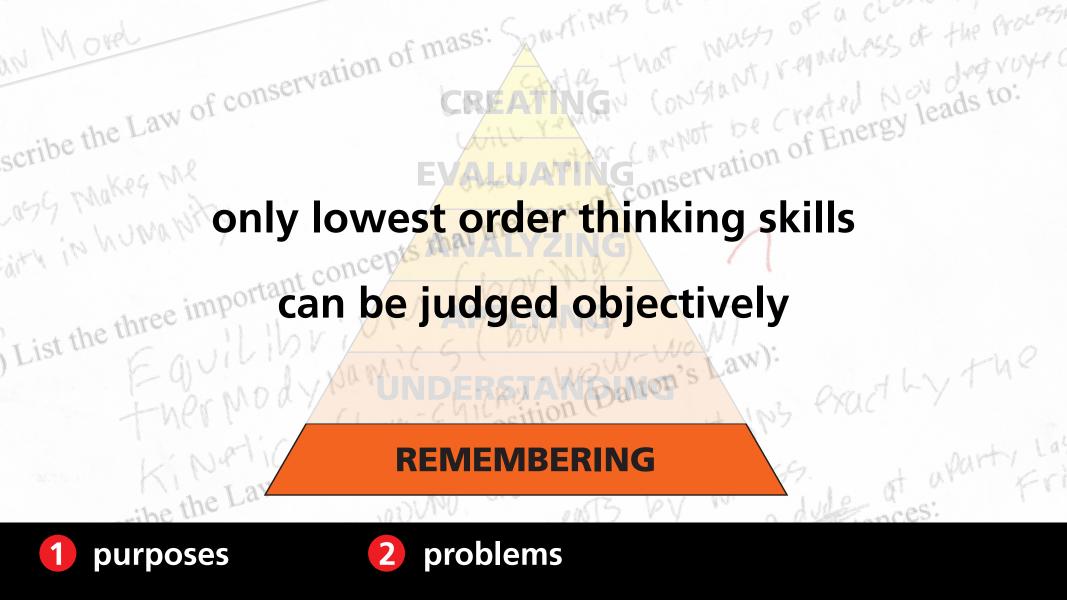
The the Law of definite composition (boy Ng)

The the Law of definite (boy Ng)

The the Law of defini world always contains ents by mass. problems purposes

scribe the Law of conservation or mass. Sometimes Care List the three important concepts that the Law of conservation of Energy leads to: LOW, States + hat mass or WILL YEMMIN CONSTANT, repardless of the Process Equilibrium (Lbout) Thermody Namics (Bovi Ng. the the Law of definite composition (Dalton's Law): wound always contains exactly the a dude at aparty Las problems purposes





scribe the Law of conservation or mass. John Times Care Law, States that mass or WILL YEMMIN CONSTANT, Y-PANYOLASS OF the Process and then there is...

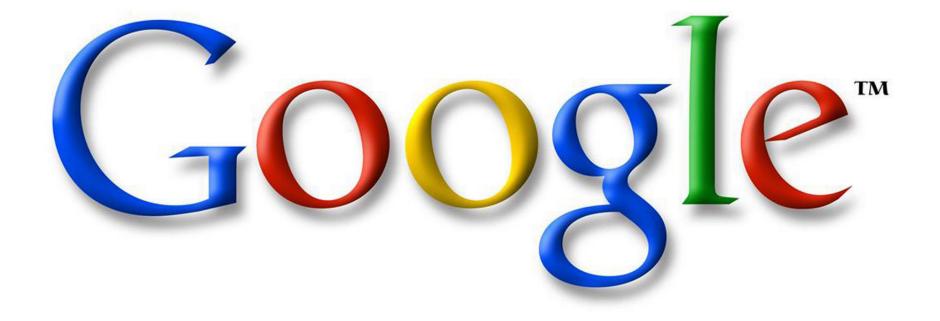
List the three important concepts that the conservation of Energy leads to: e three mine grade inflation The the Law of definite composition (Dalton's Law): wound always contains exactly the a dule at aparty Las problems purposes

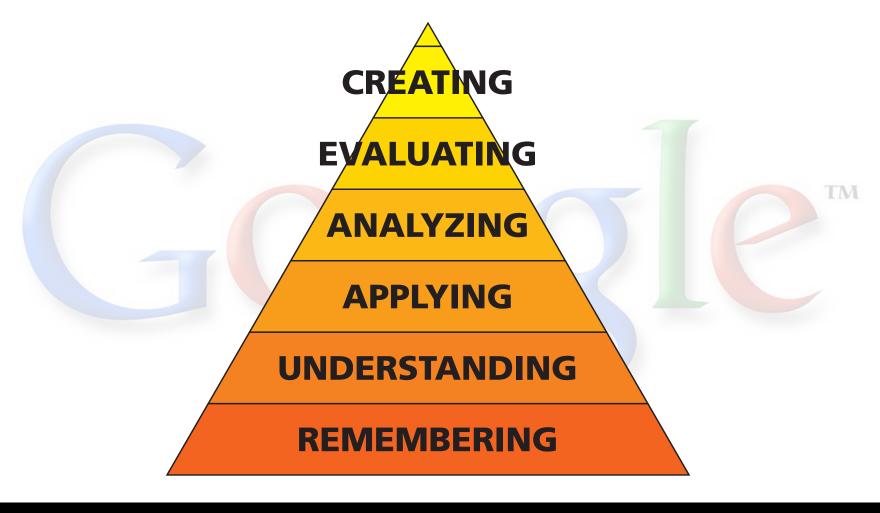




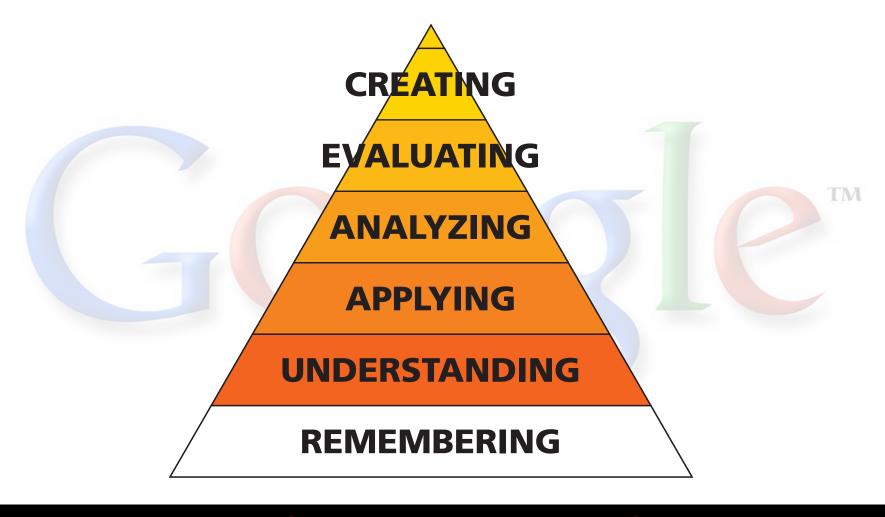
mimic real life

open-book exam





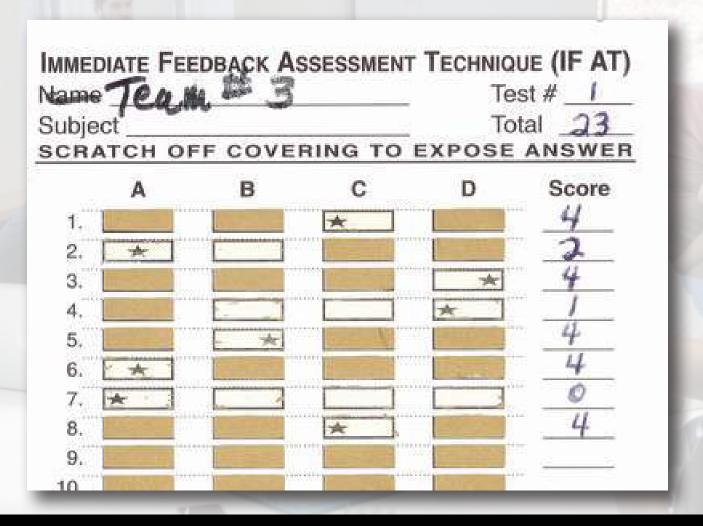
2 problems



2 problems



2 problems





2 problems

learning catalytics

Help Courses Questions Classrooms Tour

Session 389314

This is the individual round; work on these questions on your own.



Jump to ▼

expression question

What is the derivative of $f(x) = 3x^2 - 6x$?



Submit response

Enter an expression, e.g., x^2 for x^2 , $\ln(y) - \sin(x)$ for $\ln y - \sin x$, x/(y+1) for $\frac{x}{y+1}$, (1/2)x for $\frac{1}{2}$ x. Do not enter a complete equal

Current team: Blue team * Change team

Change seat

Send a message to the instructor

Join anothe

This is the individual round;

expression question

What is the derivative of $f(x) = 3x^2 - 6x$?

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This is the individual round;

expression question

What is the derivative of $f(x) = 3x^2 - 6x$?

$$6x - 6$$

Submit response

Enter an expression, e.g., x^2 for x^2 , $\ln(y) - \sin(x)$ for $\ln y - \sin(x)$

6x – 6 Brian Lukoff 6x Brent Jones 6x - 6 Beth Sawyer 6x^2 - 6 Kip Harmon

expression question

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purposes

2 problems



2 problems

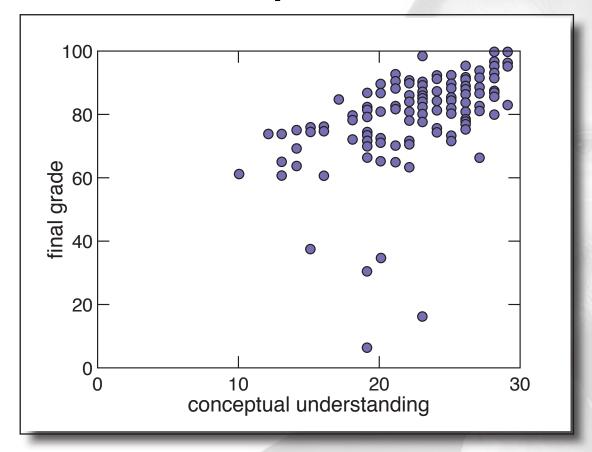


focus on feedback, not ranking

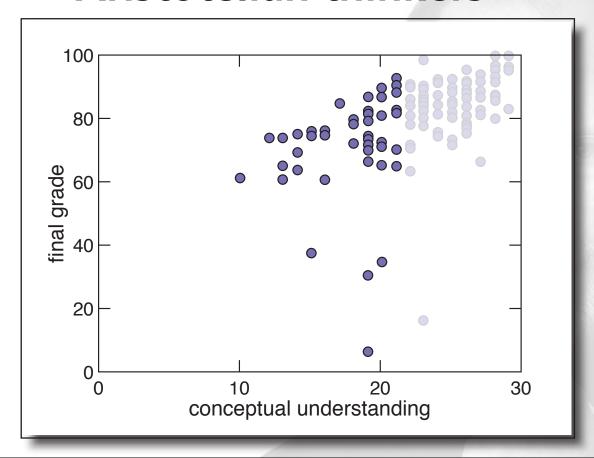
objective ranking: a myth



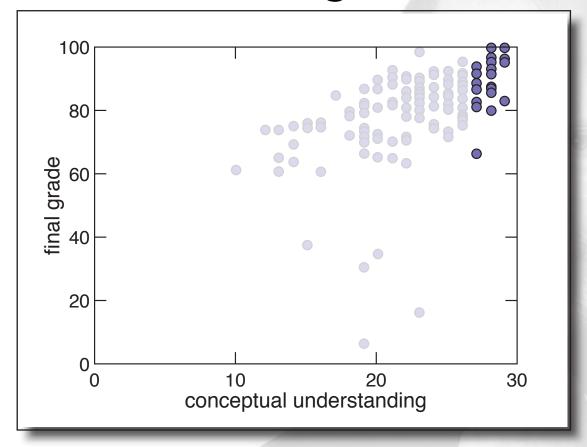
2 metrics, 2 results



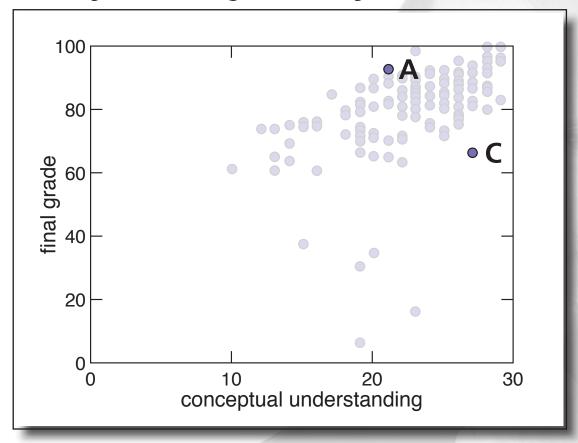
Aristotelian thinkers



top performers, broad grade distribution

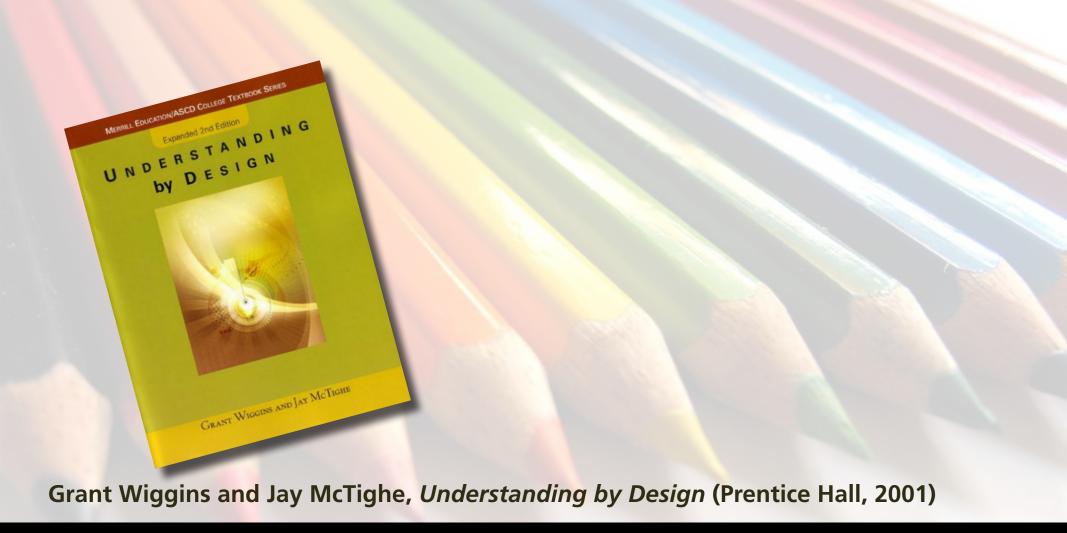


objectivity or injustice?



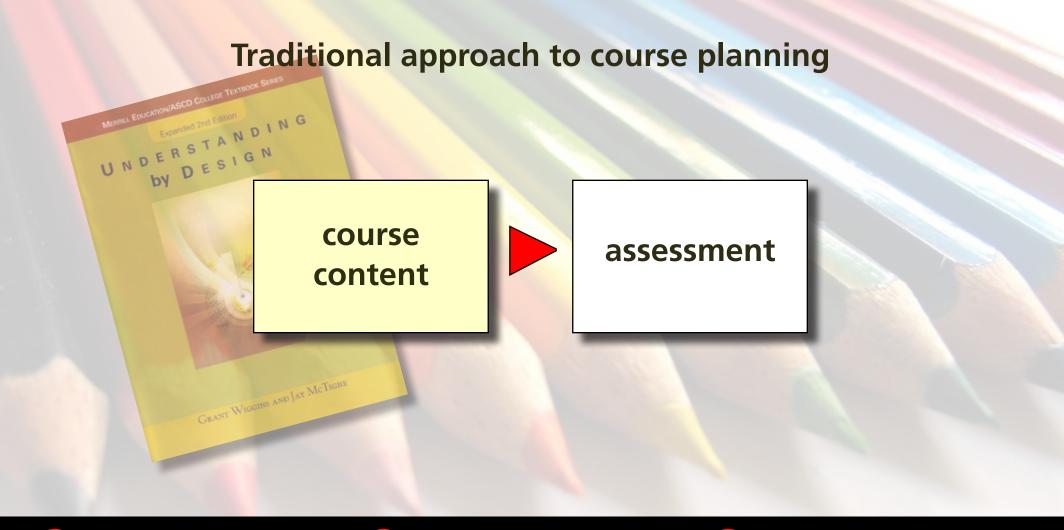


focus on skills, not content

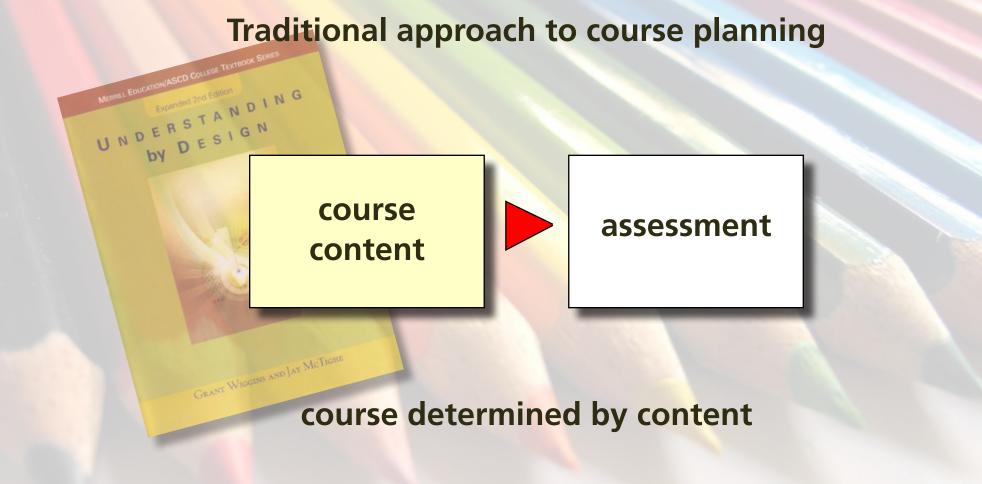


2 problems







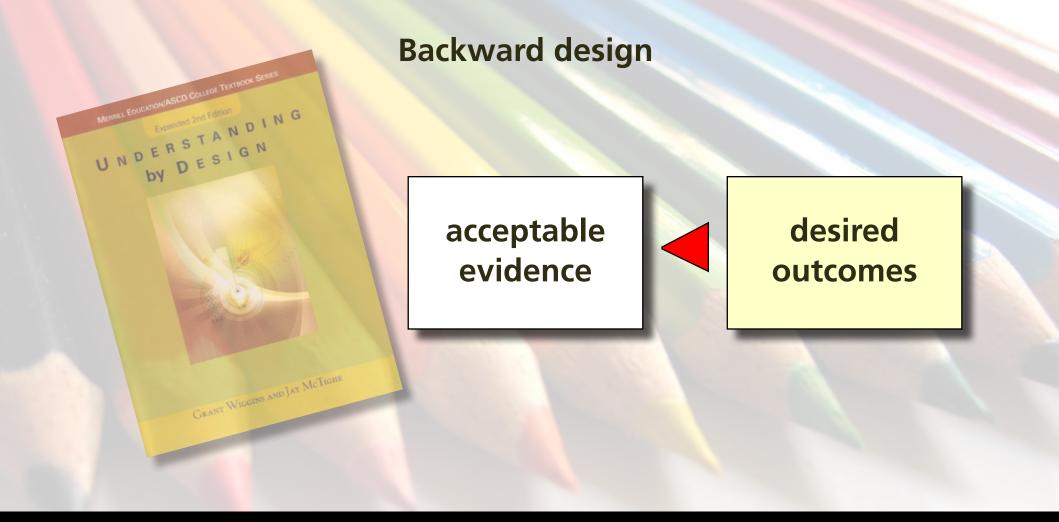




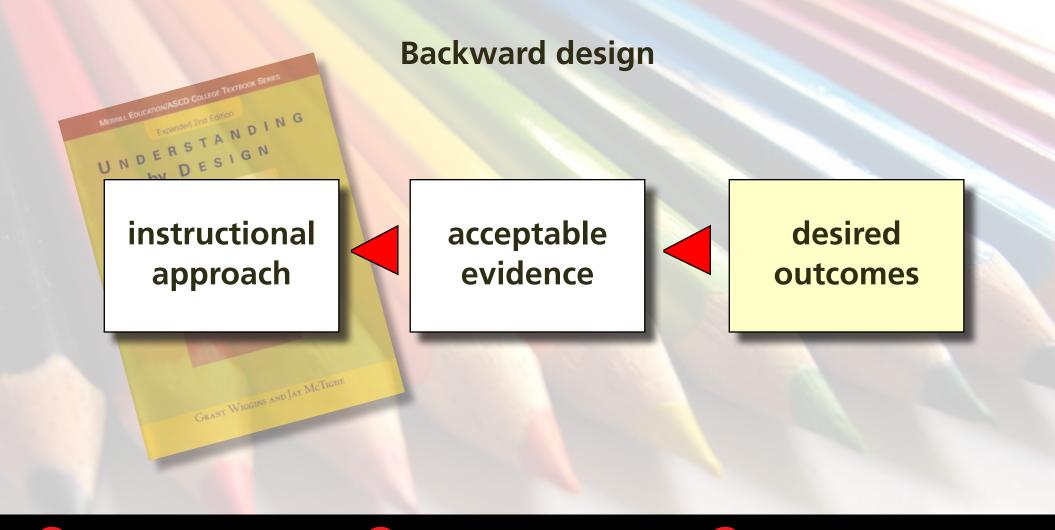




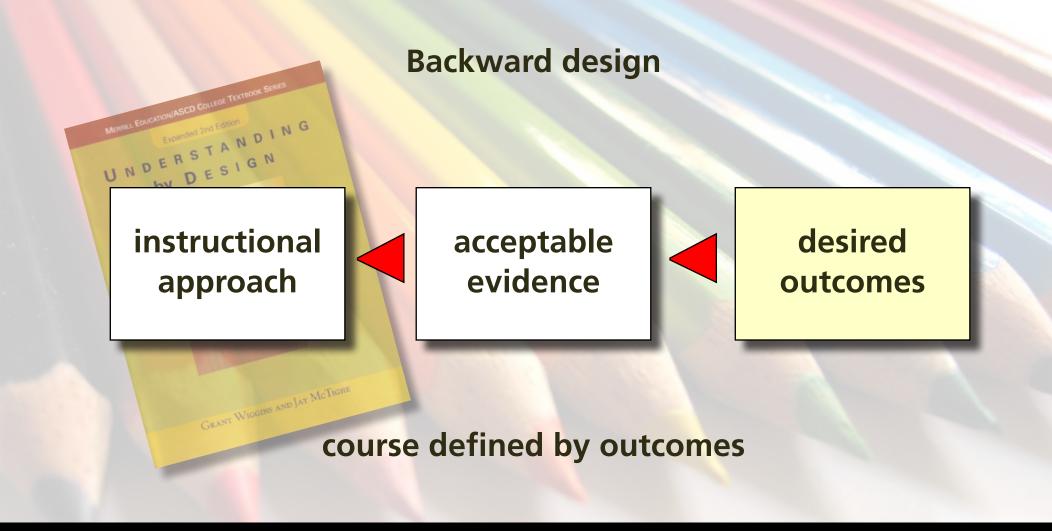
2 problems



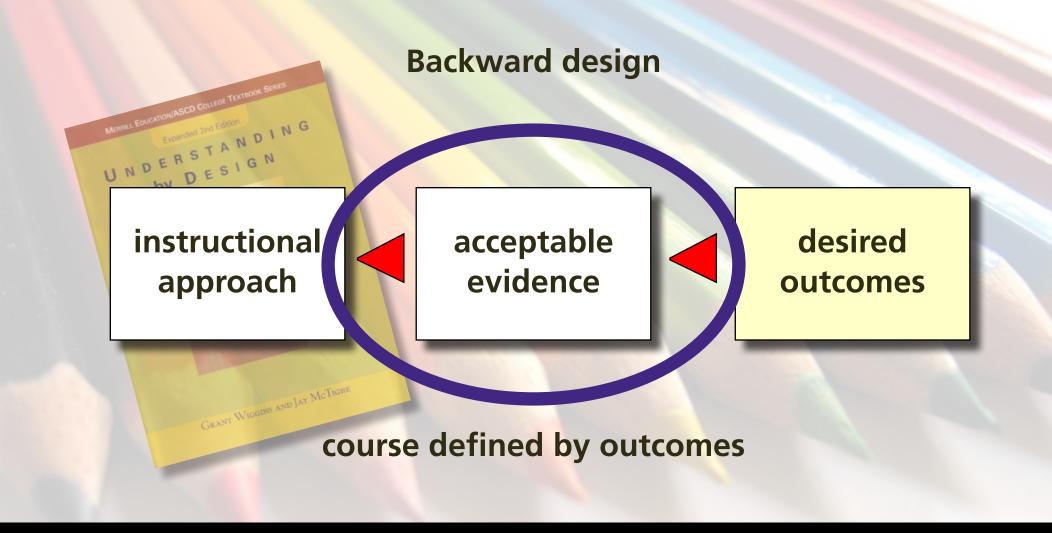
2 problems



2 problems



2 problems



2 problems



resolve coach/judge conflict

st the three important concerns Equilibrium (poring) Describe the Law of definite composition (Dalton's Law): Thermody Namics (boving) Same proportion TATION THINGS to involved substances:

Some proportion of two things to involved substances:

Ont with the proportion of two things to involved substances: involved ... Sometimes t INFRONT OF = love at or Lia problems improvements purposes

st the three important concerns Equilibrium (poring) Describe the Law of definite composition (Dalton's Law): Thermody Namics (boving) Peer-and self-assessment areaty the Sources:

Source proportion of Thinky to involved strategy to stances:

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The proportion of two things to involved strategy. involved ... Sometimes t CUEVONT OF = lovet or Lia problems purposes improvements

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st the three important concerns Equilibrium (poring) Thermody Namics (boving) Describe the Law of definite composition (Dalton's Law): Step 1: assignment & rubric tances:

Saw & proportion of TA, Thinks to involved stances:

Link elasted Teaction does one of two things to involved stances.

cpr.molsci.ucla.edu <u>problems</u> improvements purposes

st the three important concepts 3 = aann exceeds expectations Catchy title drawing audience into article (rarely selected) WRITING RUBRIC 2 = Satisfactory Compelling audience appropriate hook or lead present AND first few paragraphs orient (what you should aim for) $_{1}$ = $_{ m needs}$ improvement does not meet expectations entirely Basic title All paragraphs are short (1-5 sentences) lay reader to subject Hook or lead present OR first few paragraphs orient reader to subject Wordy, long, unimaginative, or Rubric for Calibrated Peer Review Headings structure paper in organized, Missing a "hook" or a lead in the first logical way AND paragraphs linked by inappropriate title Some paragraphs are long (6 or more paragraphs AND does not orient reader sentences), most are short (1-5 sentences) Ends compellingly with an important idea or A few headings OR most paragraphs though provoking question AND ties back to Title Many paragraphs are long (6 or more transitions Structure linked by transitions Opening Lacks organization, no logical headings, title and opening hook Summary-like closing, but does not tie sentences) no transitions between paragraphs important idea AND does not tie back to interest into the or opening hook Paragraph length Does not end compellingly or with an Includes fact-checked expert and/or lay Contains incorrect, misstated, irrelevant, All facts are 100% correct, relevant, and proper, convincing, or interesting sources testimony (newspaper article only) Organization Original presentation of material; uses the opening Closing Material appropriate and aimed at target audience AND relates to practical/everyday or unnecessary facts Does not back up facts with proper, or evidence concerns AND uses analogies or other Some originality apparent convincing, or interesting sources or techniques to relate unfamiliar content to Material appropriate and aimed at target cpr.molsci.ucla.edu familiar concepts; no jargon, colloquialisms, Mostly predictable based on available audience AND mostly avoids scientific Content/Ideas contains no colloquialisms or Sources/evidence not aimed at r acronyms

purposes

problems



st the three important concep-MEDIUM

The New York Times

January 20, 2009

Spectacular Supernova Obse

By John Glenn

New York, N.Y. – People around the world witnessed the the course of our lives and for many in the course of our lives and powerful course of our lives and ou in recorded history this morning. The supernova, name Eastern Time, appearing as bright as the full moon. A continued to shine for several hours.

Traffic was interrupted in New York City, as early-r to at the amazing sight. As of press t

Galileo

20 January 2008

Yesterday at about 4 p.m., I observed a pec appeared in the sky. A glowing flash emitted seconds, accompanied its appearance. The c it even in broad daylight. How did this unprece its consequences for Earth? In order to unders on Earth will most likely ever see again, we hav galaxie. To fully appreciate it and not be alarme understand the life cycle of stars and how the classified as consisting of eigh

new and glaring addition that To many fears is in purposes

_{it new addition to night sky} ires fear and awe - Mona Lisa

By now everyone has noticed the mistakable new addition to our sky, which

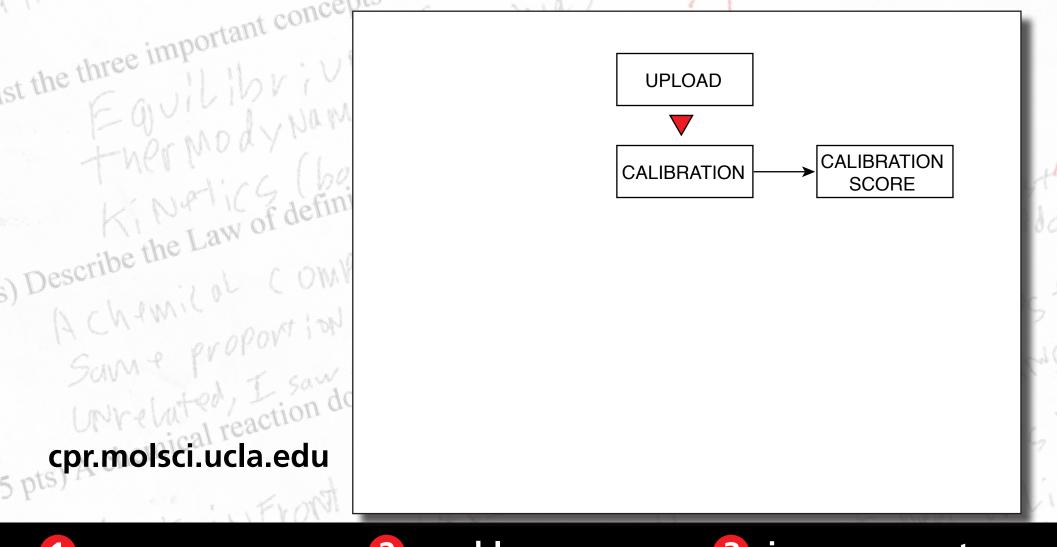
utshines the brightest star at night and

Continues to shine alongside the sun during

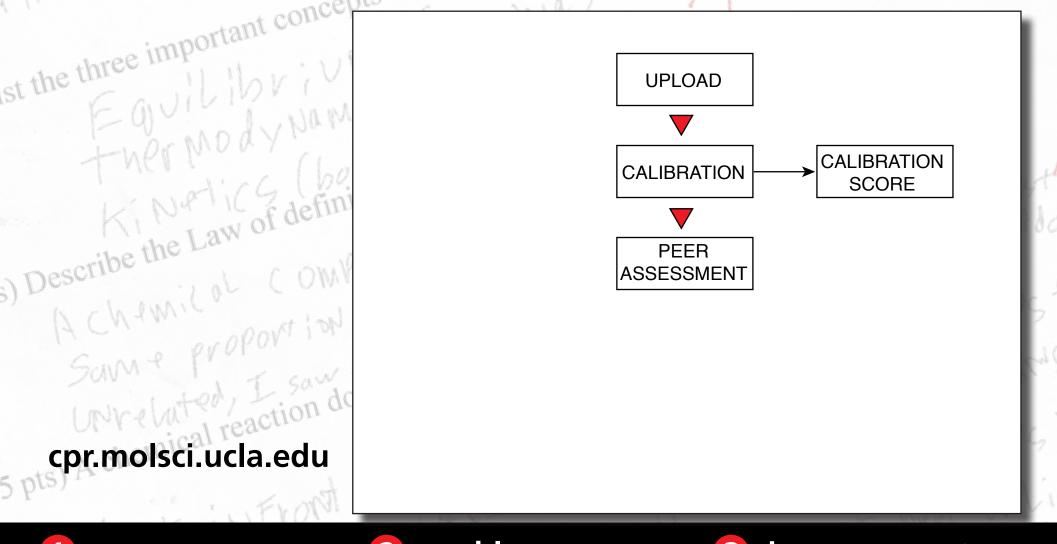
the course of our lives and for many it has

the day. None of us have seen such a sight in

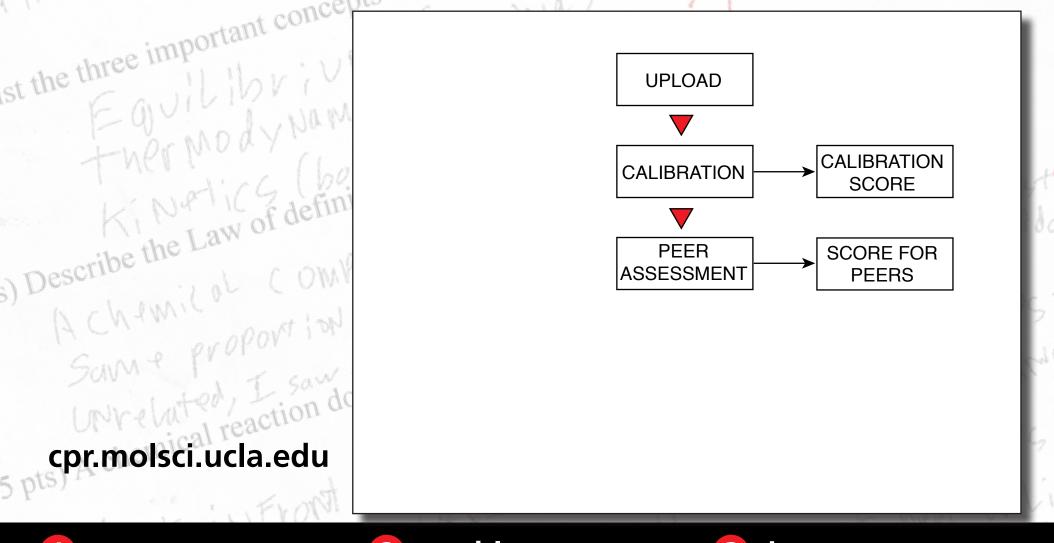
problems



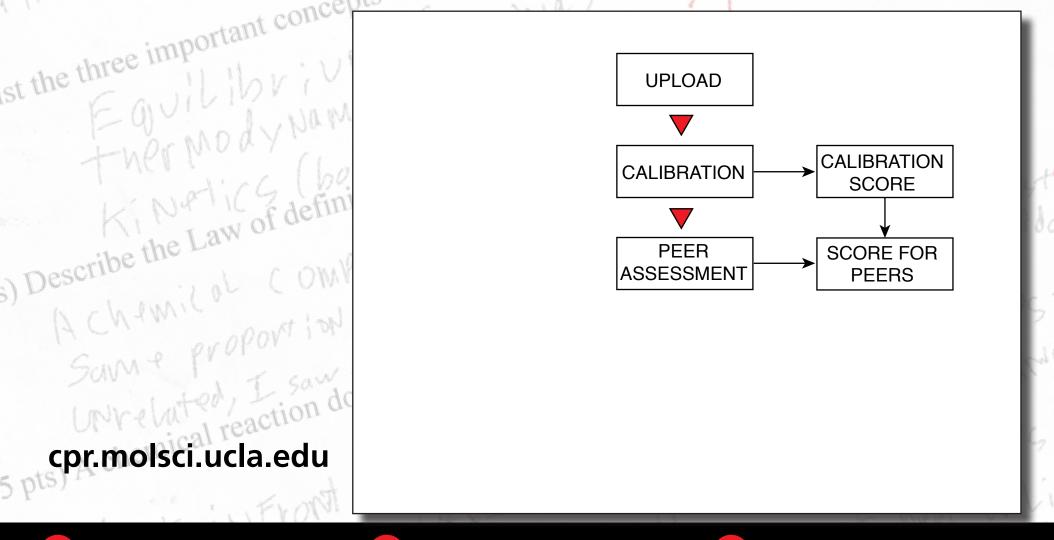
2 problems



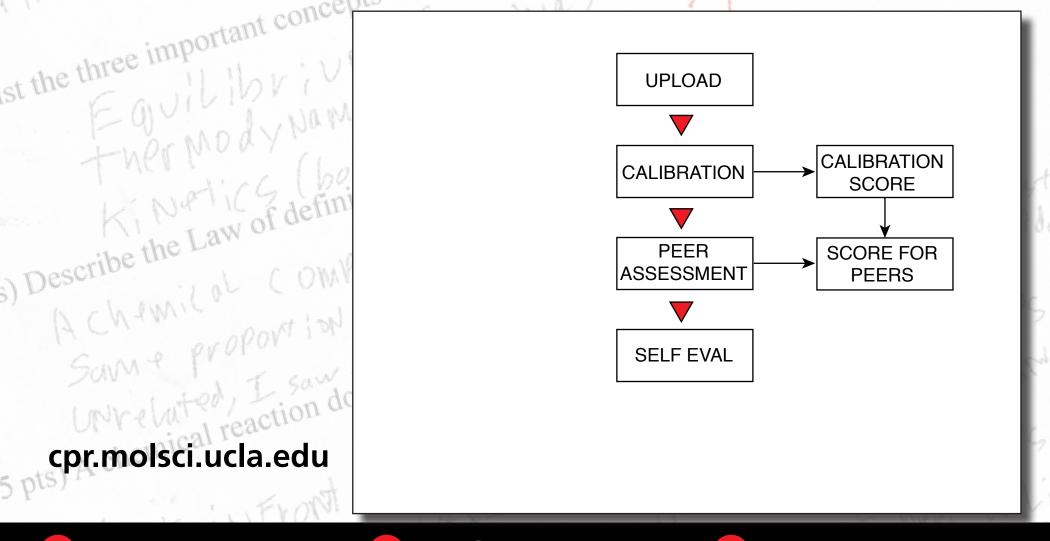
2 problems



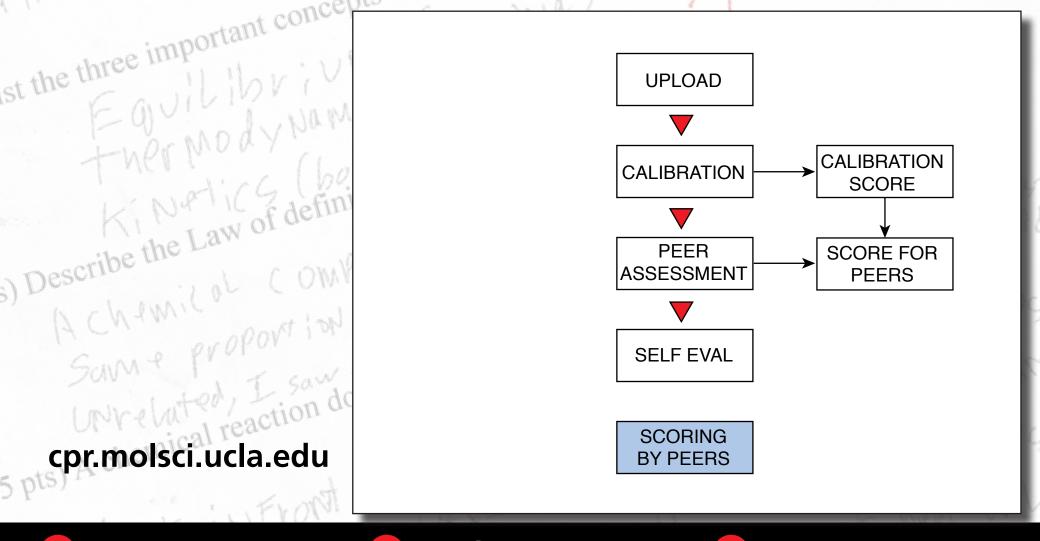
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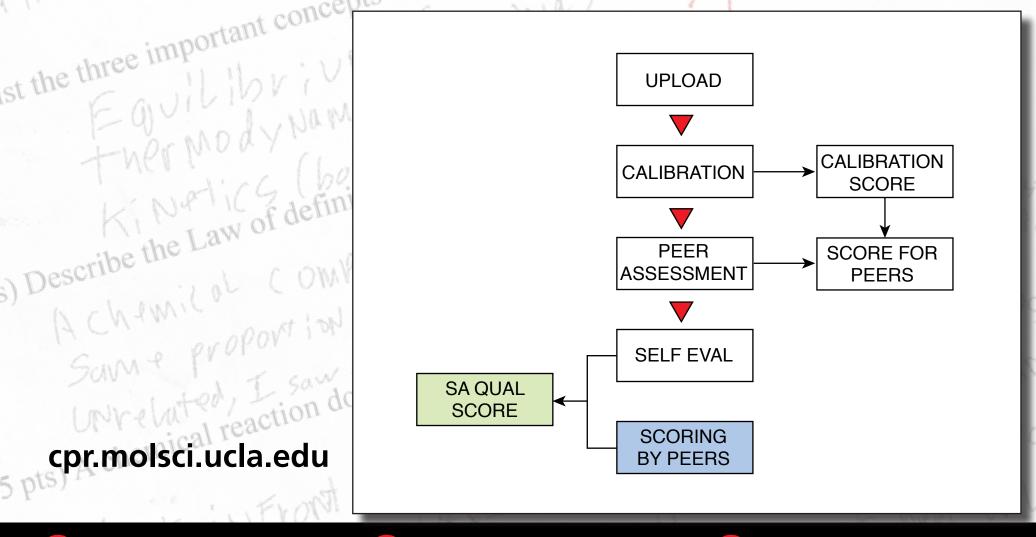
2 problems



2 problems



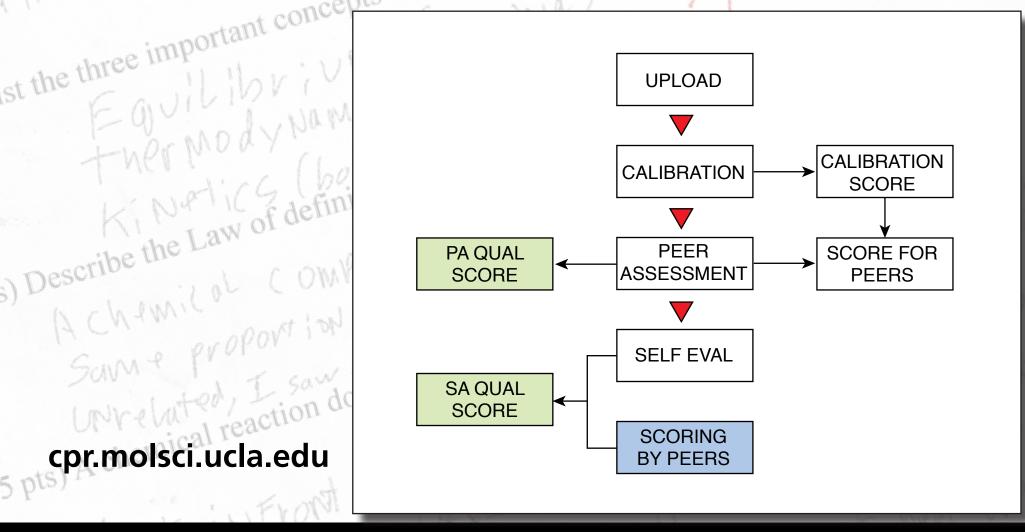
2 problems



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purposes

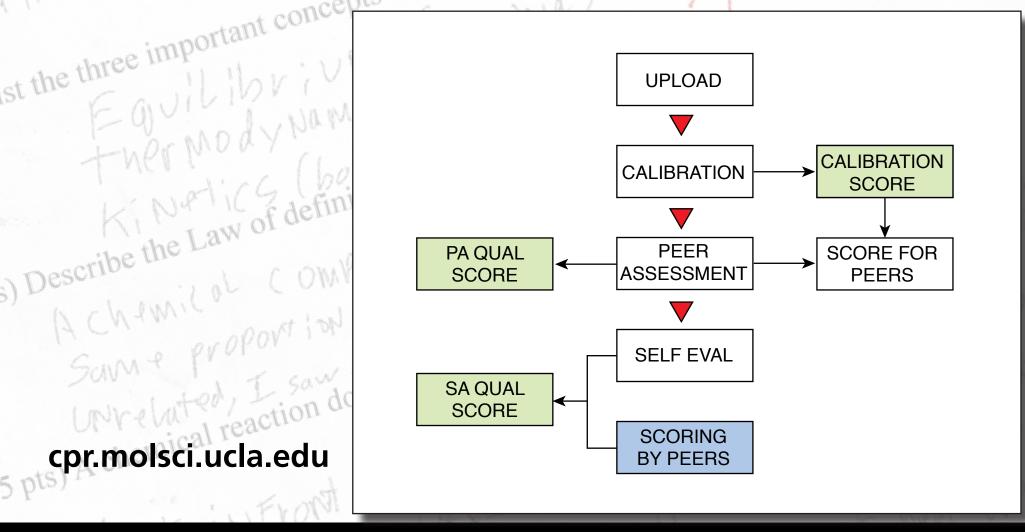
problems



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purposes

problems



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purposes

problems



rethink assessment





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