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 425 377 magnificen/ think andid glo \$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

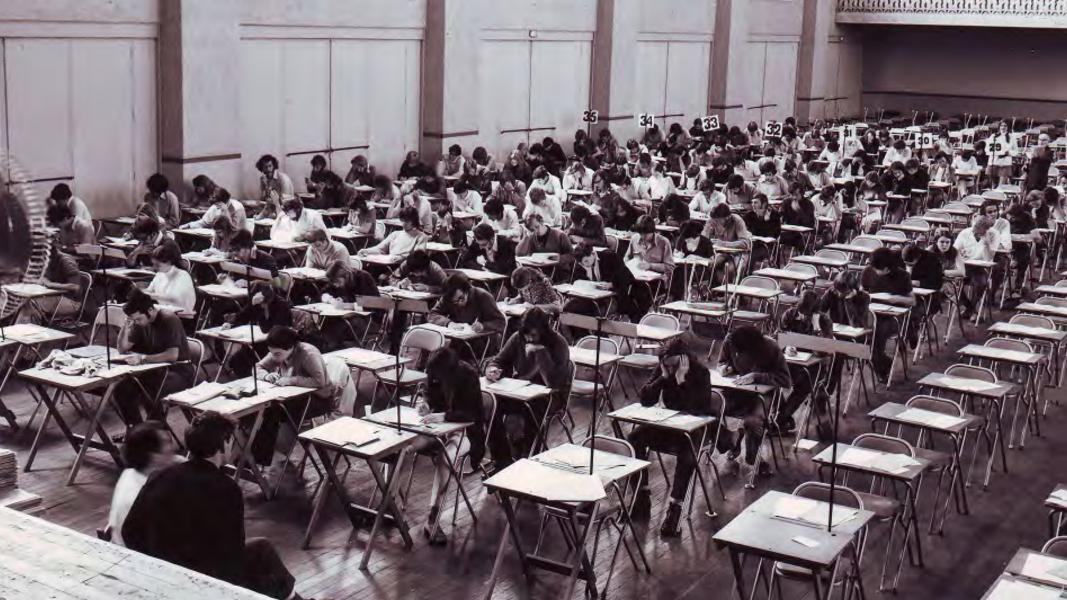
we only guarantee they'll pass the test



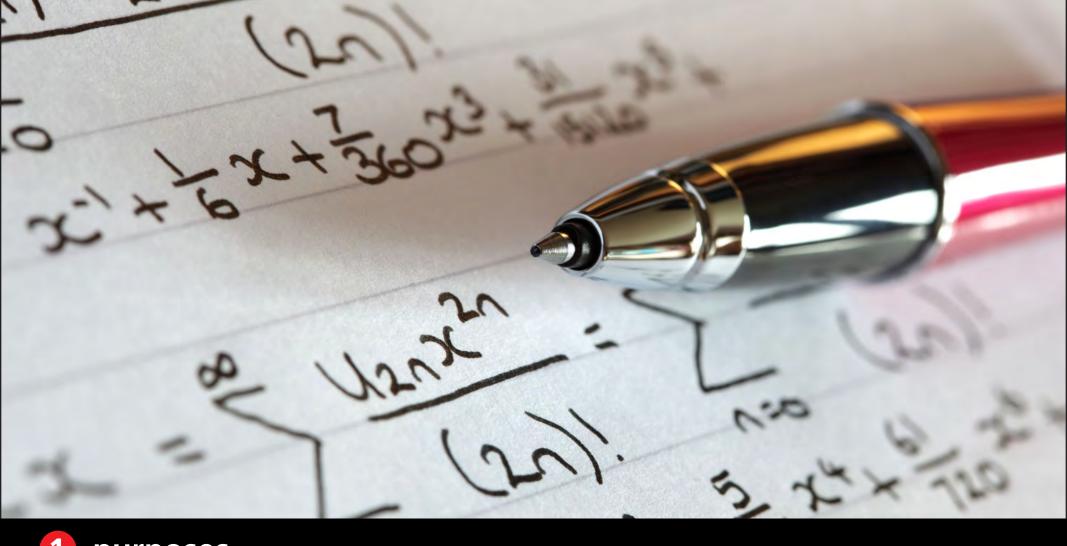




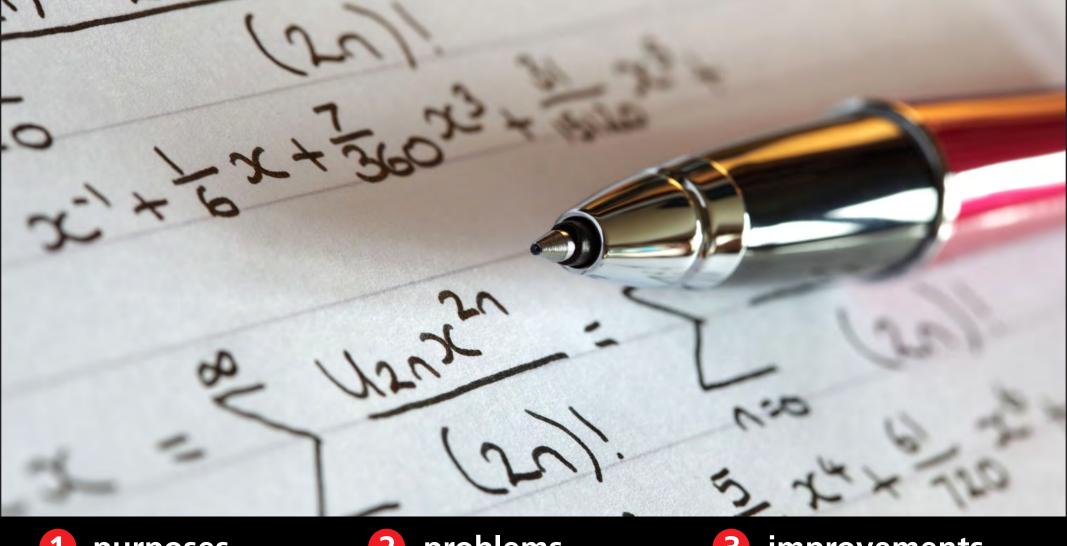












problems

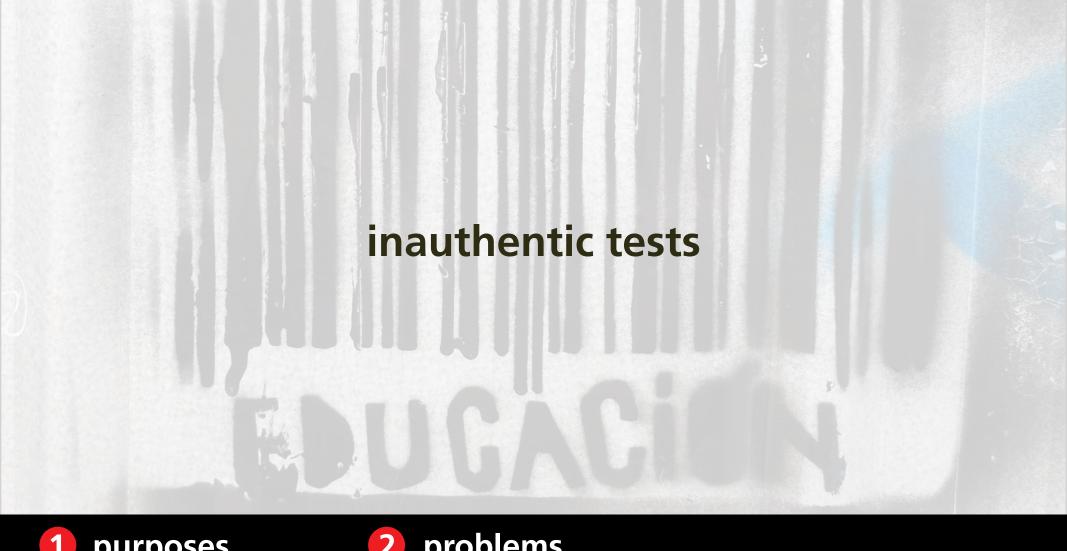
improvements

how many different purposes of assessment can you think of?

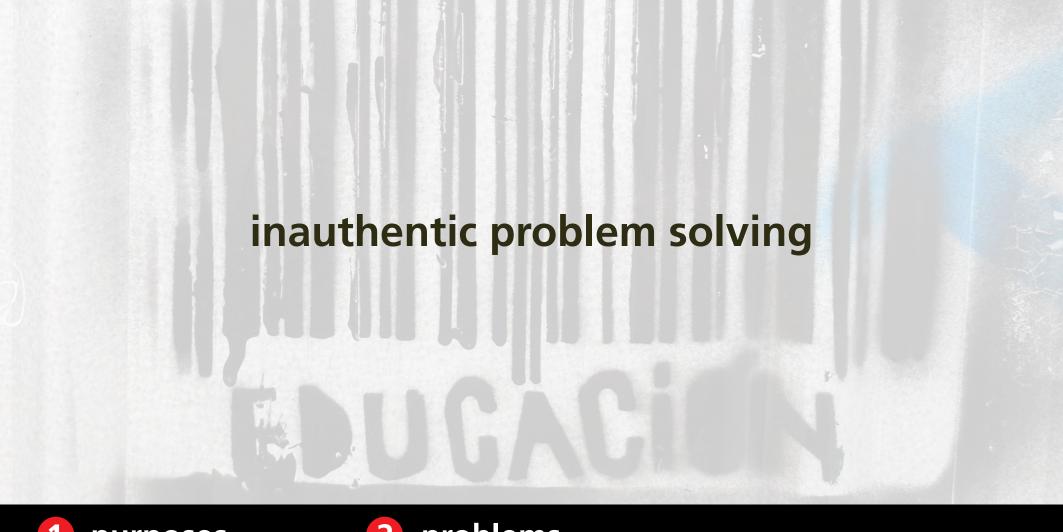
- 1. rate students
- 2. rate professor and course
- 3. motivate students to keep up with work
- 4. provide feedback on learning to students
- 5. provide feedback to instructor
- 6. provide instructional accountability
- 7. improve teaching and learning

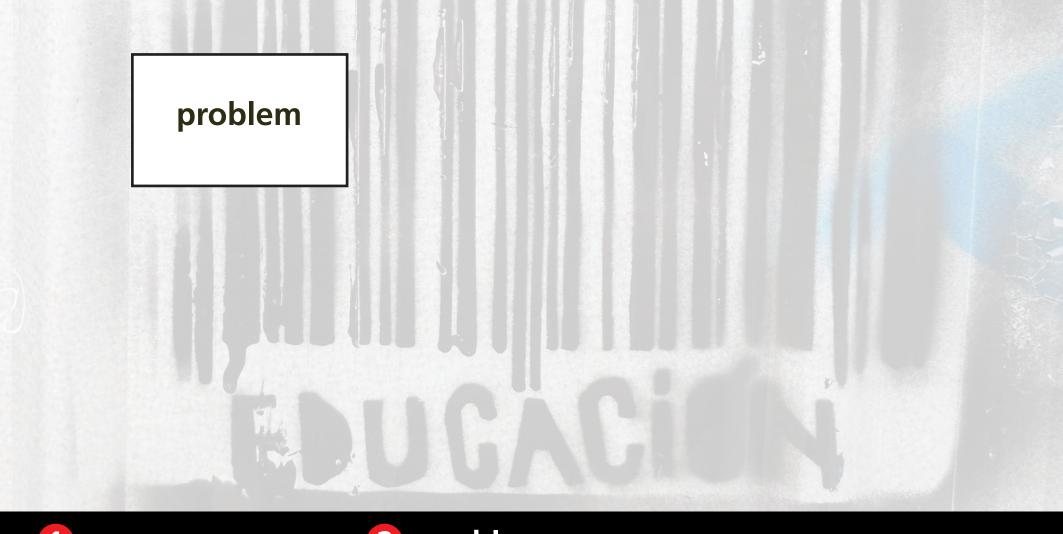


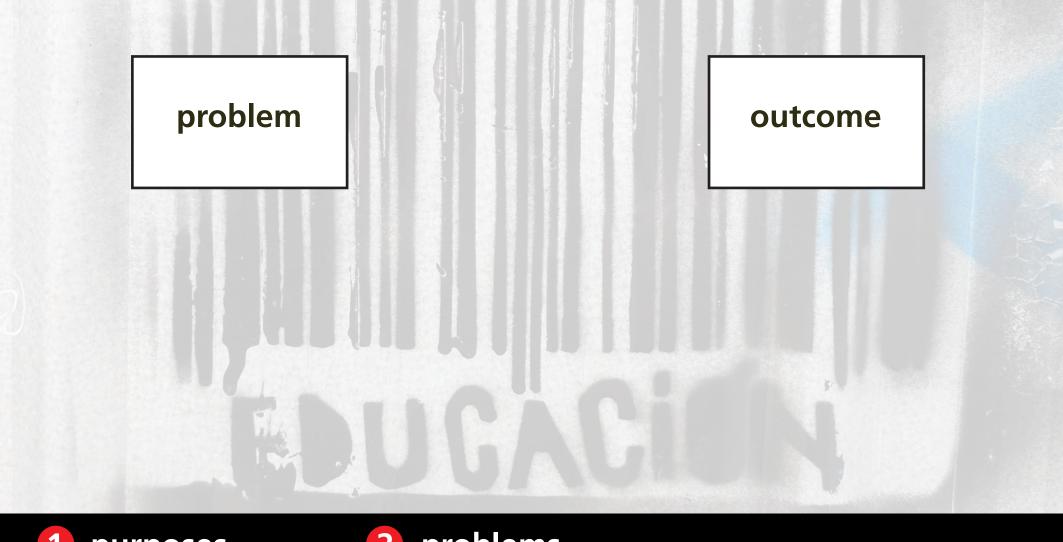


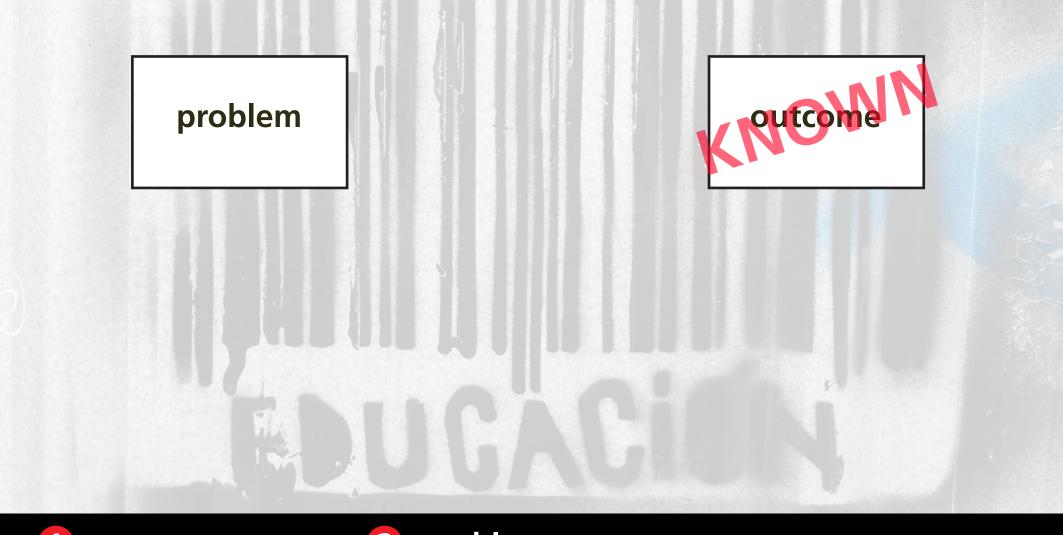


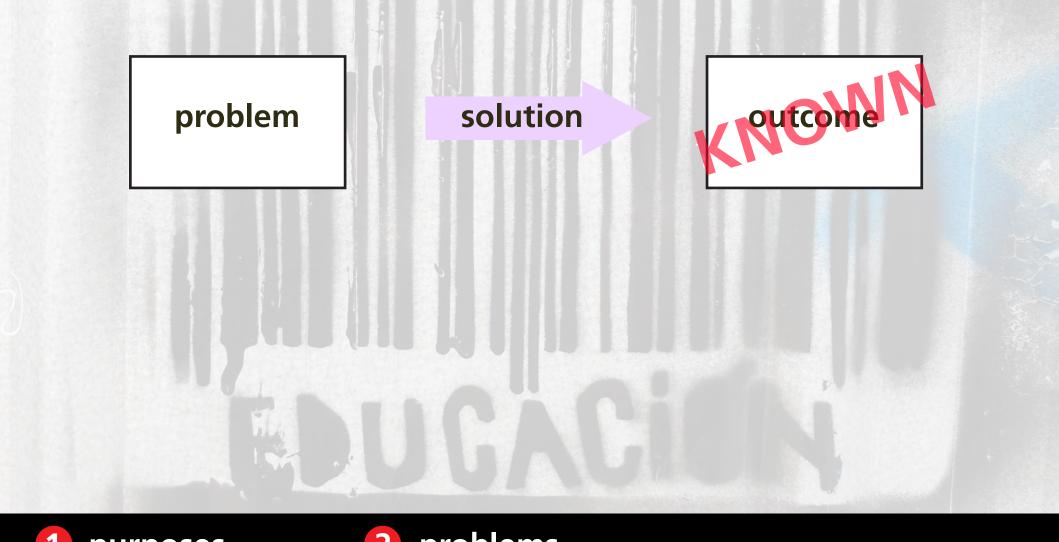
what is the meaning/definition of...?

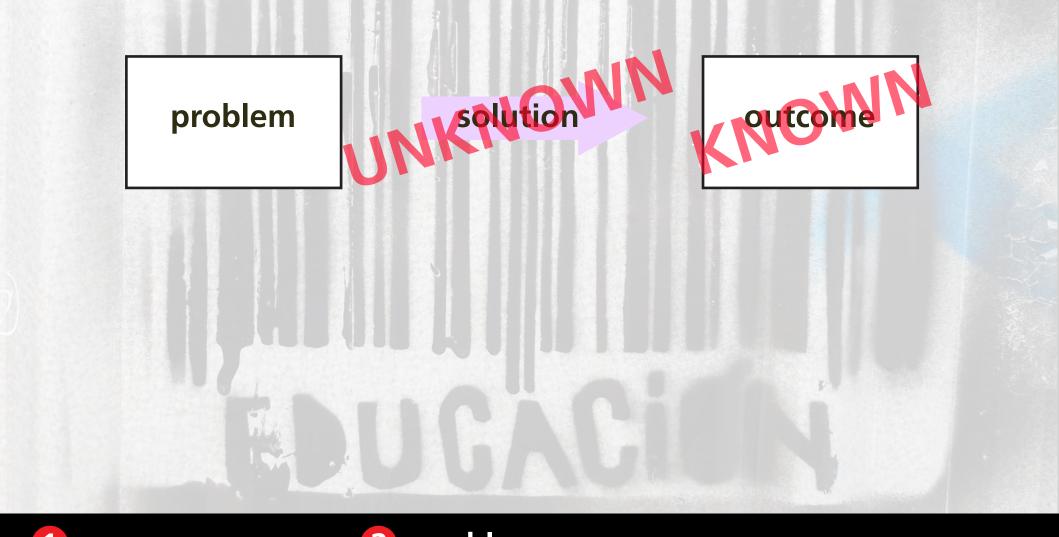


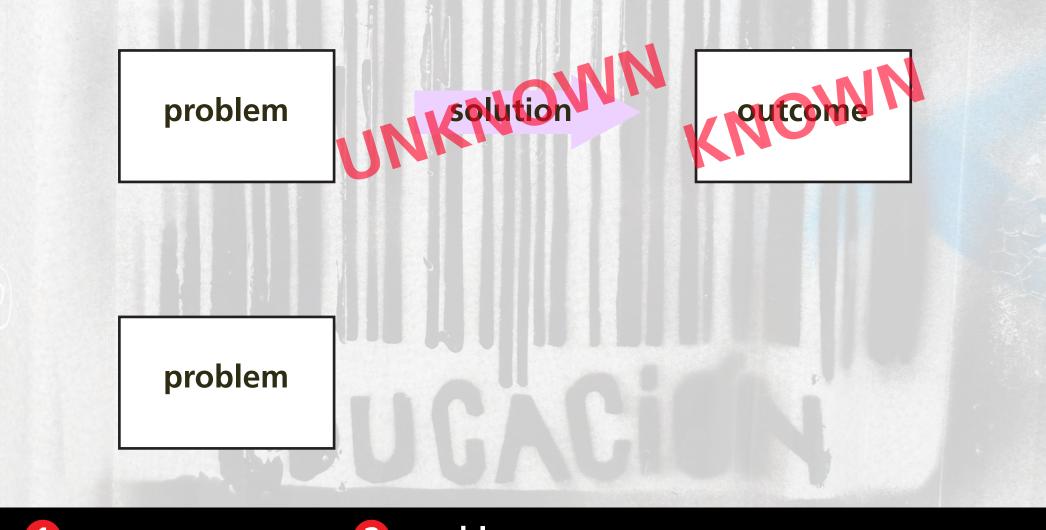






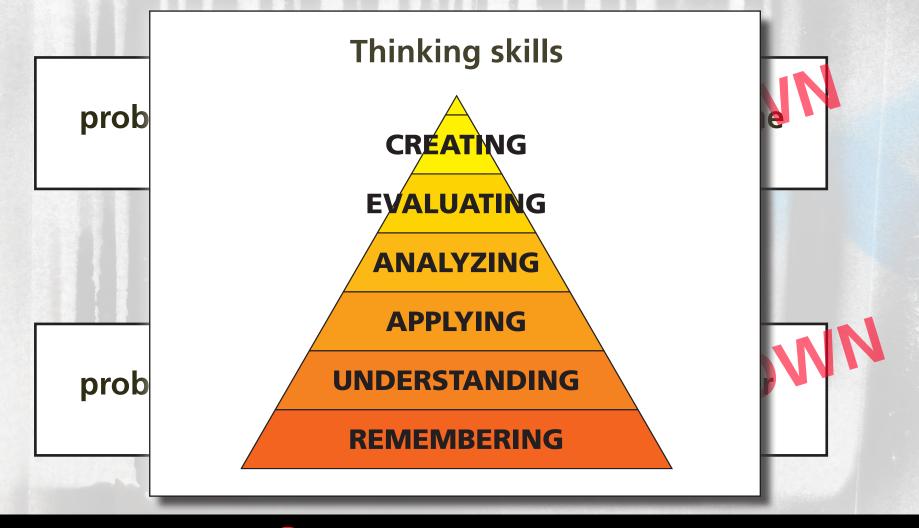












How long do you have to wait before someone frees up a space?

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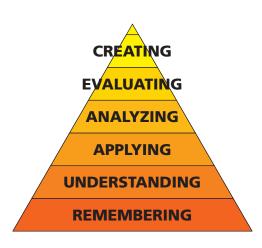
Requires:

Assumptions
Developing a model
Applying that model

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

Requires:

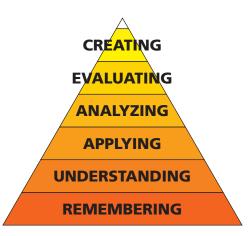
Assumptions
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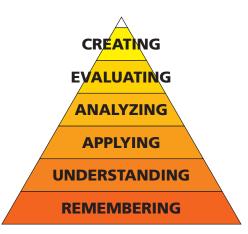


On a Saturday afternoon, you pull into a parking lot with unmetered spaces near a shopping area. You circle around, but there are no empty spots. You decide to wait at one end of the lot, where you can see (and command) about 20 spaces. On average people shop for 2 hours.

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

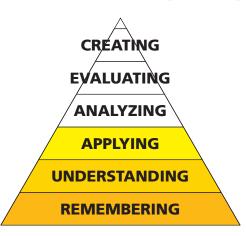


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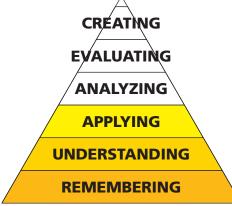
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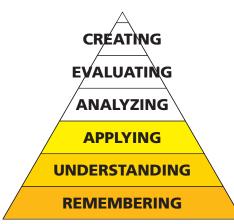


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$$t_{wait} = \frac{T_{shop}}{N_{spaces}}$$

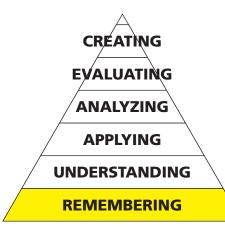


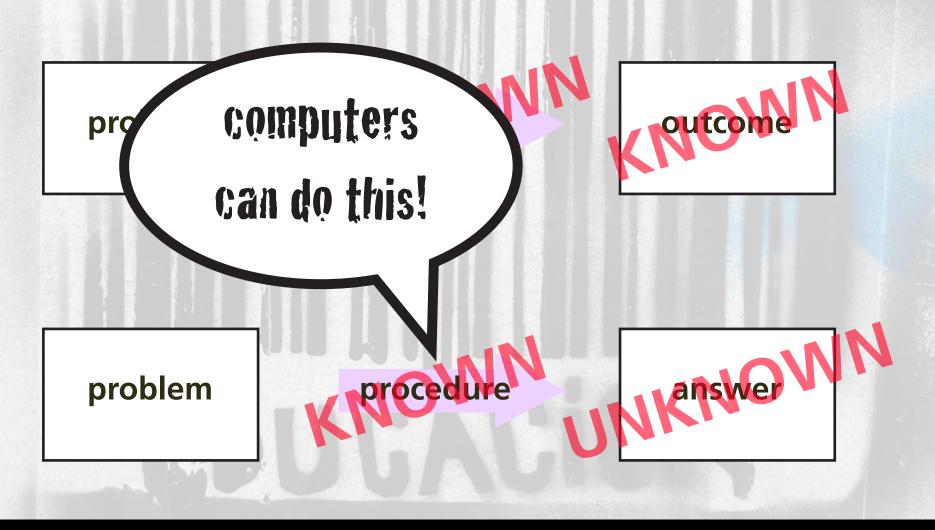
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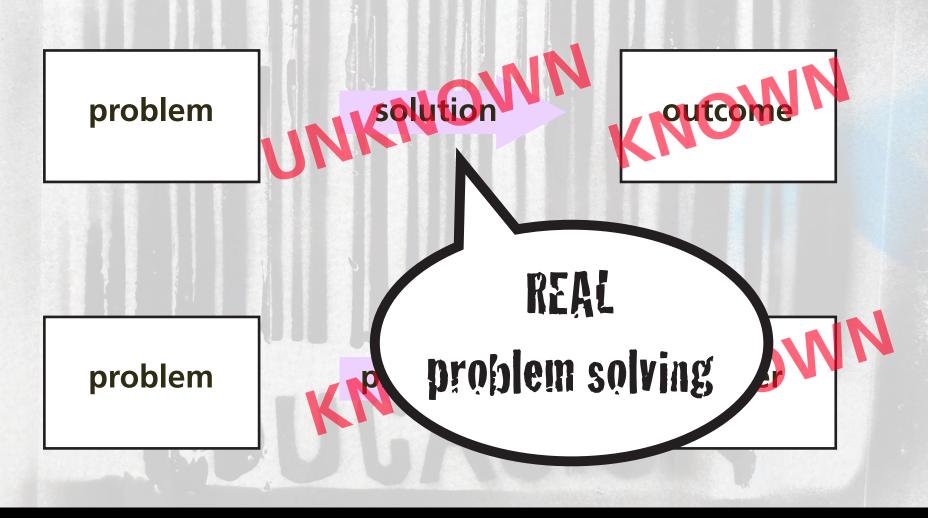
$$t_{wait} = \frac{T_{shop}}{N_{spaces}}$$











problem

approach 1

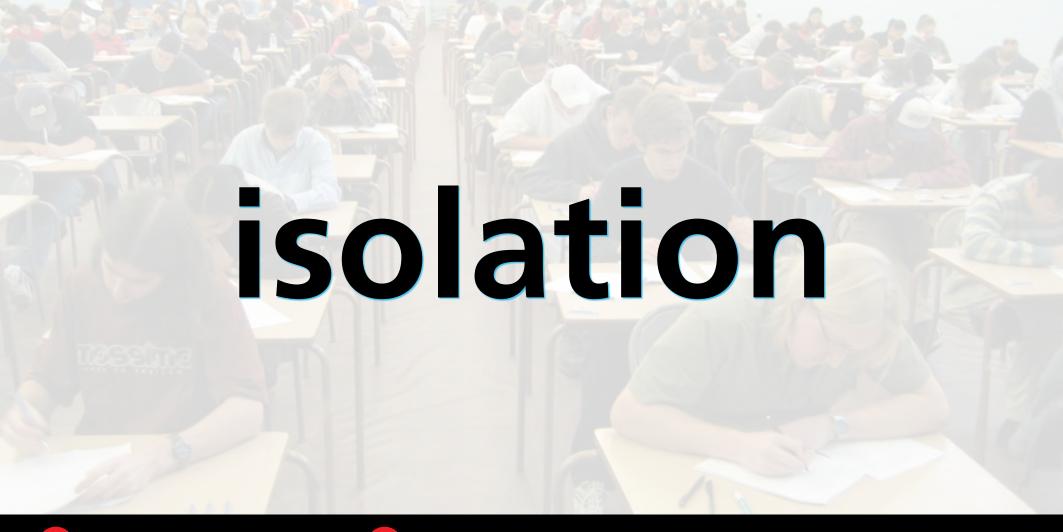
approach 3

approach 2

outcome

grading incompatible with real problem solving





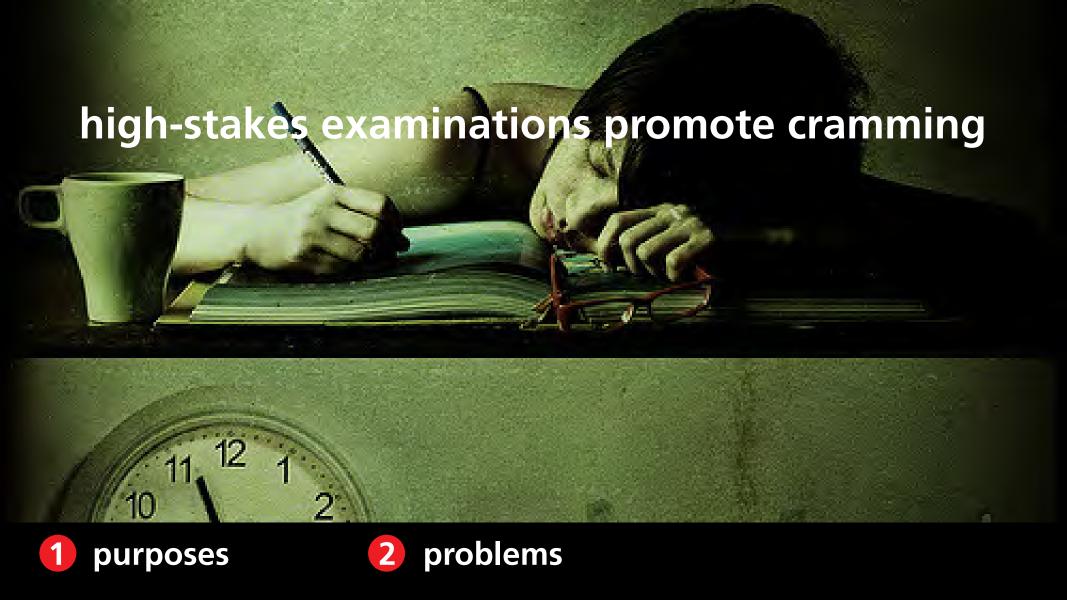
Math. 302-02, Final Stam

(4) We will use spherical coordinates:

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

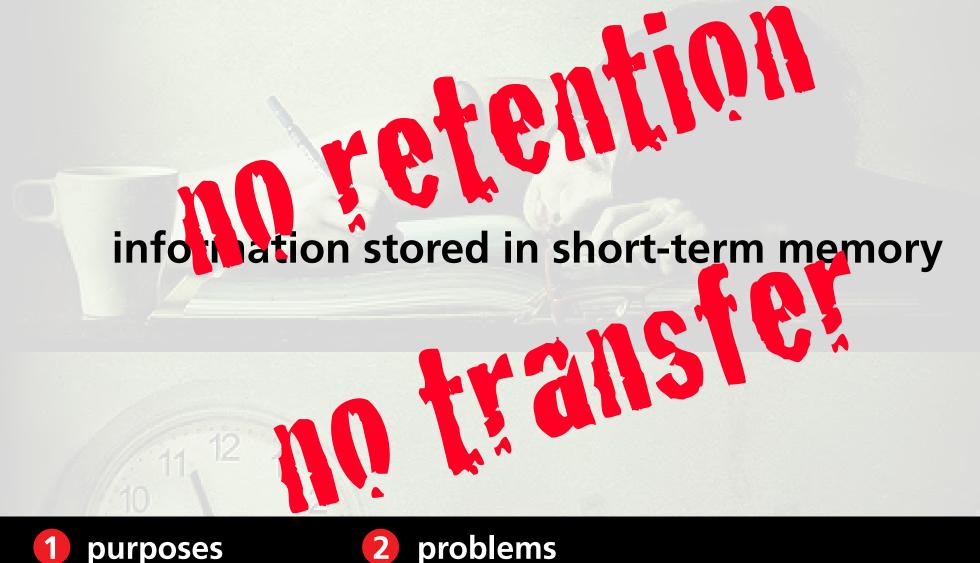
 $(2\pi)^{2\pi} (2\pi)^{2\pi} (2\pi)^{2\pi}$

purposes



information stored in short-term memory





scribe the Law of conservation or mass. John John Care LULY) States that mass or " Lo CVILL YAMAIN CONSTAINT, YAMAILASS OF THE PROLOS measure of standing relative to others

List the three important concepts that the three important concepts that the conservation of Energy leads to: + Nermody Namic 5 (boving) The the Law of definite composition (Dalton's Law): actuals contains exactly the a dude at aparty Las problems purposes

scribe the Law of conservation of mass. John John Care Lawy States that wass or in co CVILL YAMAIN CONSTAINT, YAMALASS OF THE PROLOS measure of standing relative to others

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

scribe the Law of conservation or mass. John John Care Lawy States that mass or in L WILL YAMAIN CONSTAINT, repardless of the Process List the three important concepts that the three important concepts the three Equilibrium (boring) + Nermody Namics (bovINA) The the Law of definite composition (Dalton's Law): act by the a dude at aparty Las problems purposes

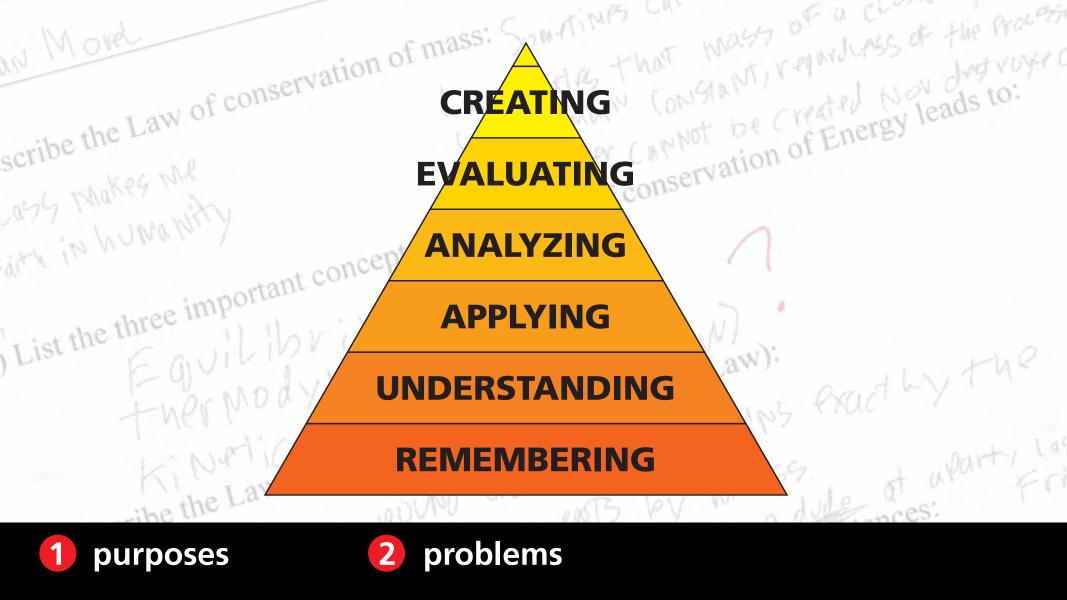
scribe the Law of conservation or mass. Sometimes Care LOWN) States that mass or " Lo CVILL YAMAIN CONSTAINT, YAMAILASS OF THE PROLOS List the three important concepts that the three important concepts the three Equilibrium (boring) Ther Mody Na Coach or judge? Law):

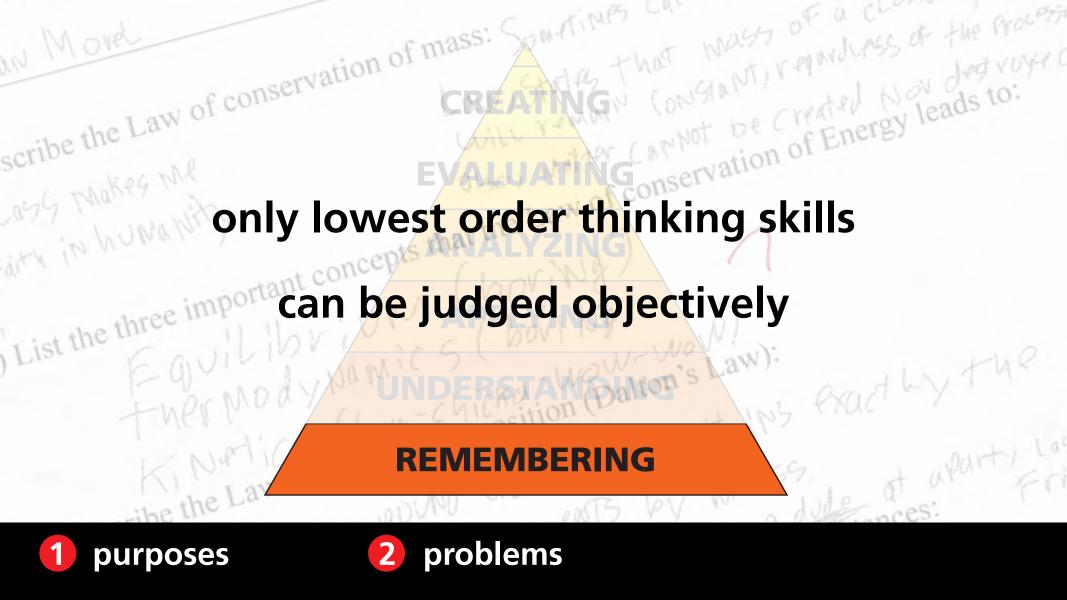
The the Law of definite composition (dge? Law): abound always contains exactly the a dule at aparty Las problems purposes

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List the three important concepts that the conservation of Energy leads to: objectivity (fairness, reliability) the the Law of definite composition contains contains 000TS by MC169. problems purposes

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scribe the Law of conservation or mass. John John Care LULY) States that mass or " Lo CVILL YAMAIN CONSTAINT, YAMAILASS OF THE PROLOS and then there is...

List the three important concepts that the three important concepts the three important co • grade inflation Ther Mody May cheating (Dalton's Law):

The the Law of definite composition (Dalton's Law): actuals contains exactly the a dude at aparty Las problems purposes





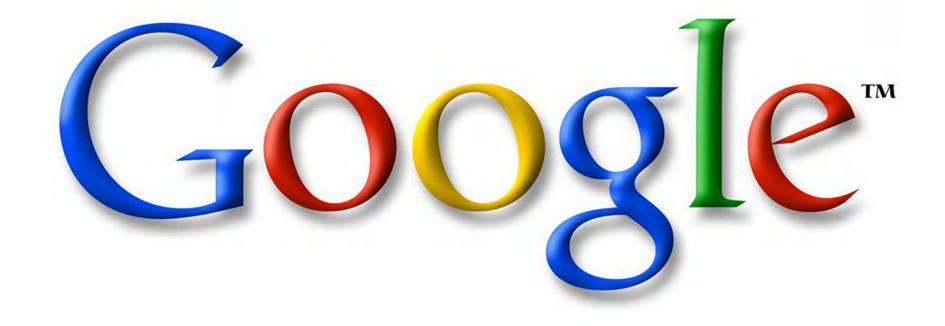
mimic real life

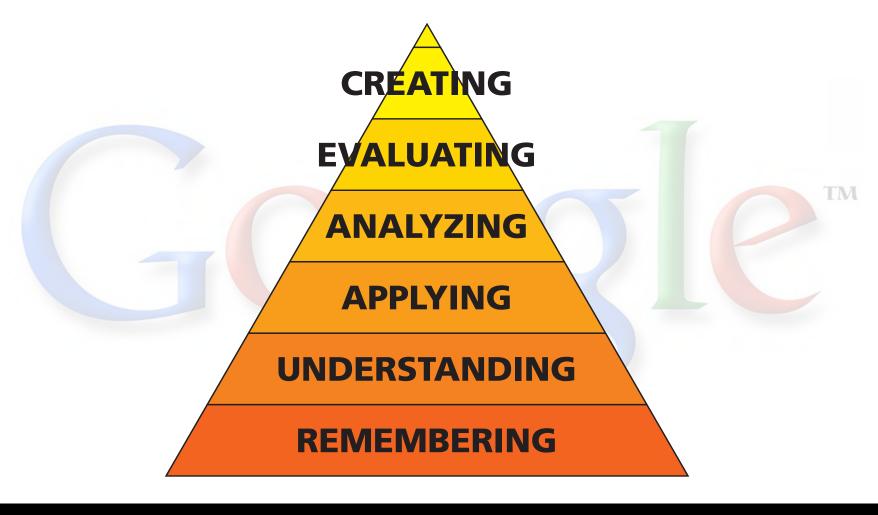
open-book exam



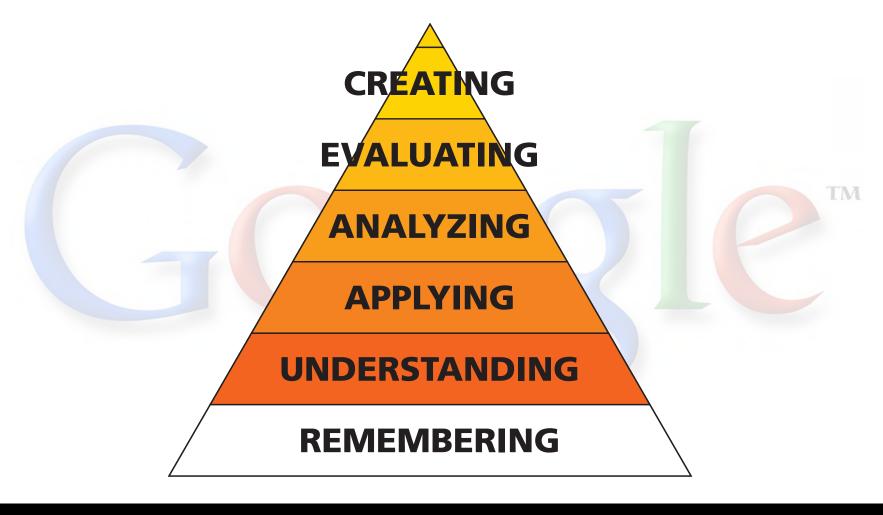








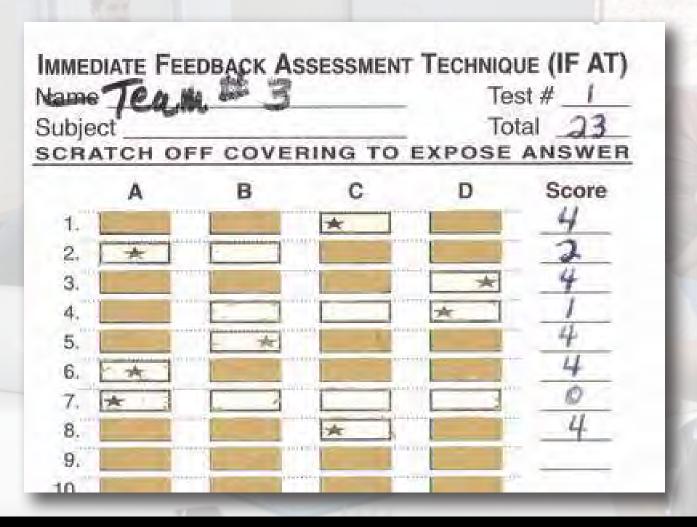
2 problems



2 problems



2 problems





2 problems

learning catalytics

Classrooms Help Courses Questions 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 $\ln x$

Current team: Blue team . Change team



+ Change seat

Send a message to the instructor

< Join another

This is the individual round;

expression question

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

Submit response

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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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Submit response

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1 purposes

2 problems



2 problems

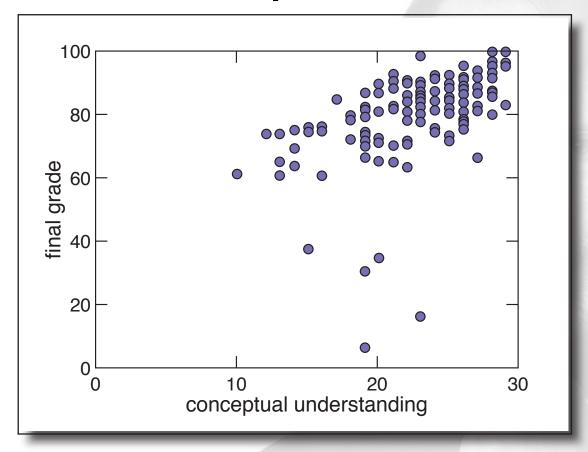


focus on feedback, not ranking

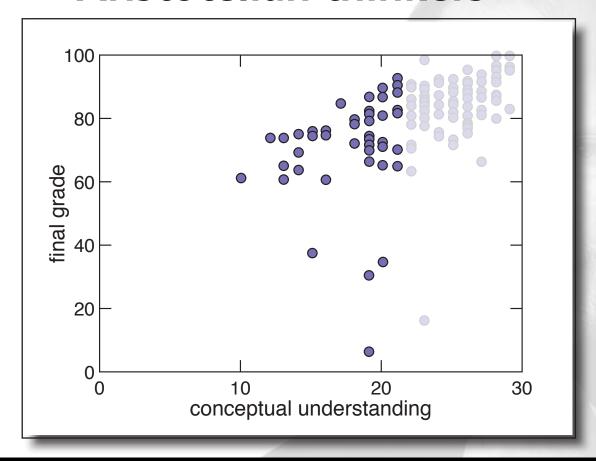
objective ranking: a myth



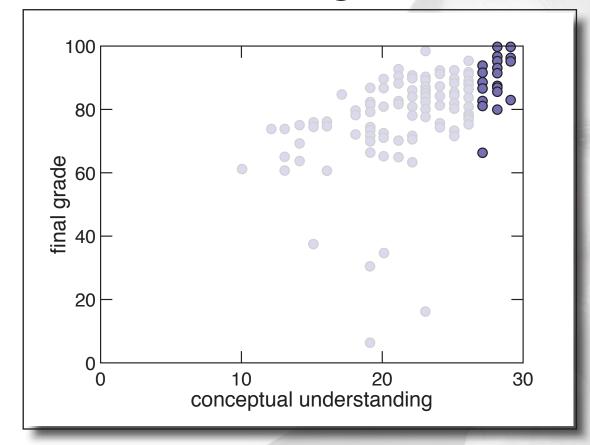
2 metrics, 2 results



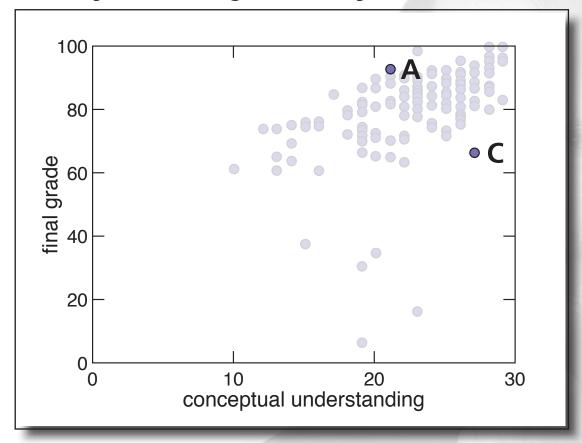
Aristotelian thinkers



top performers, broad grade distribution

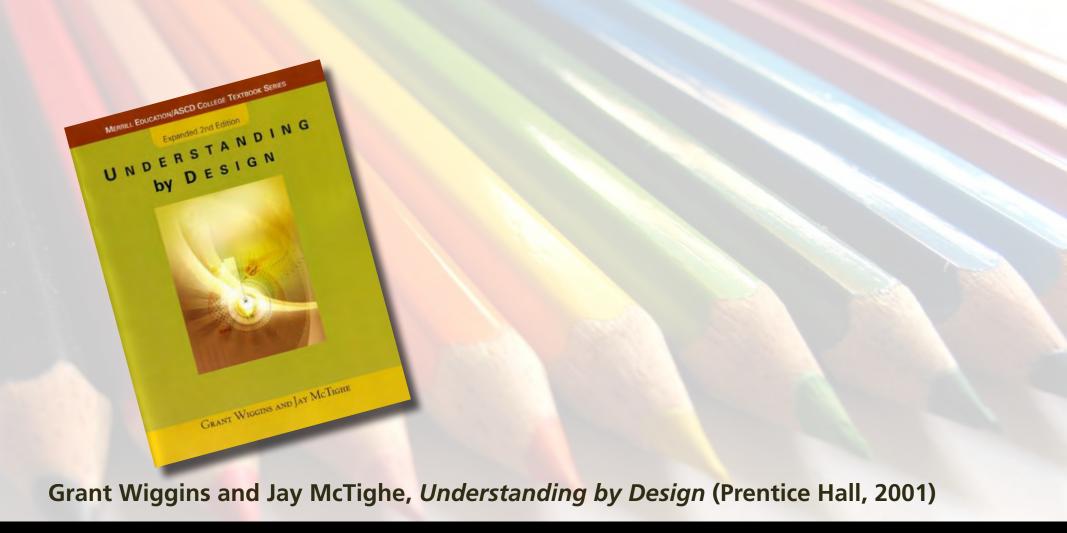


objectivity or injustice?



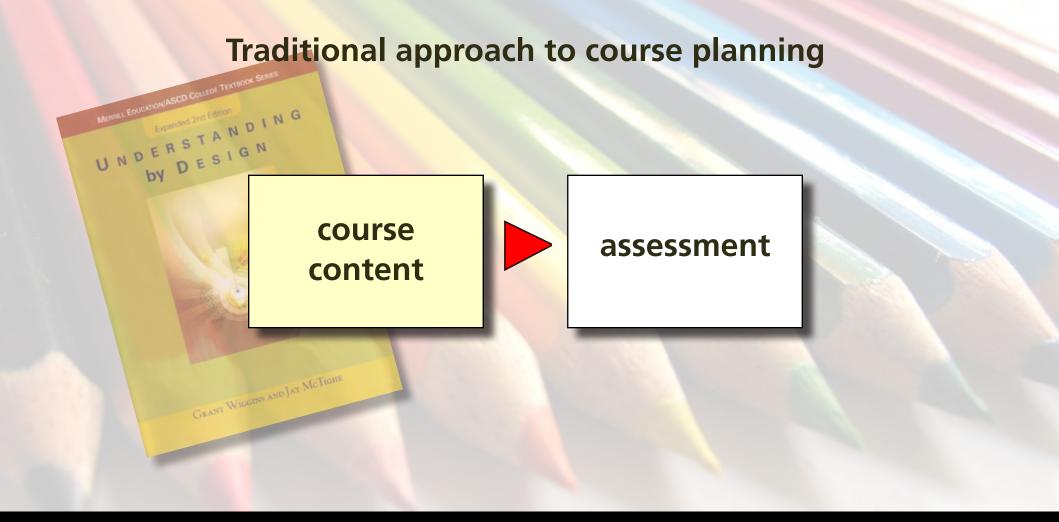


focus on skills, not content

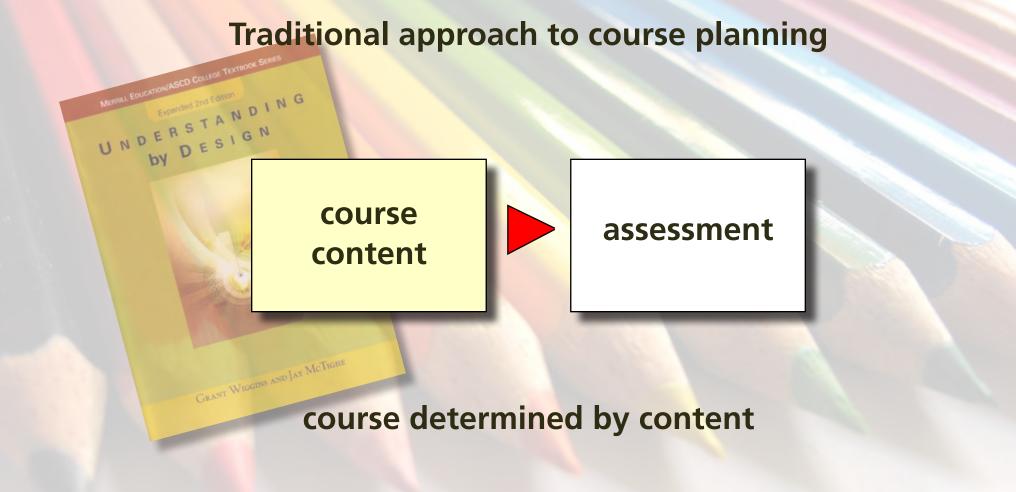


2 problems







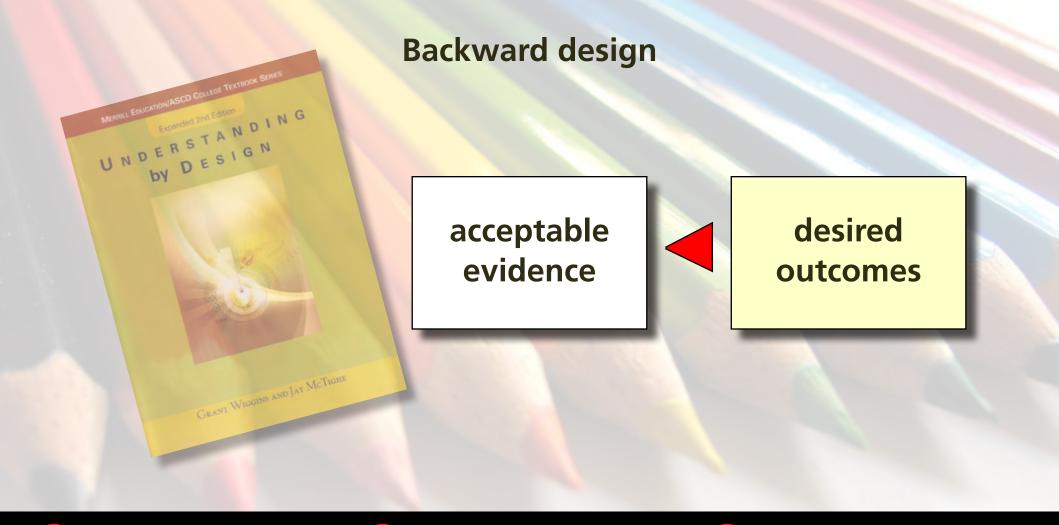




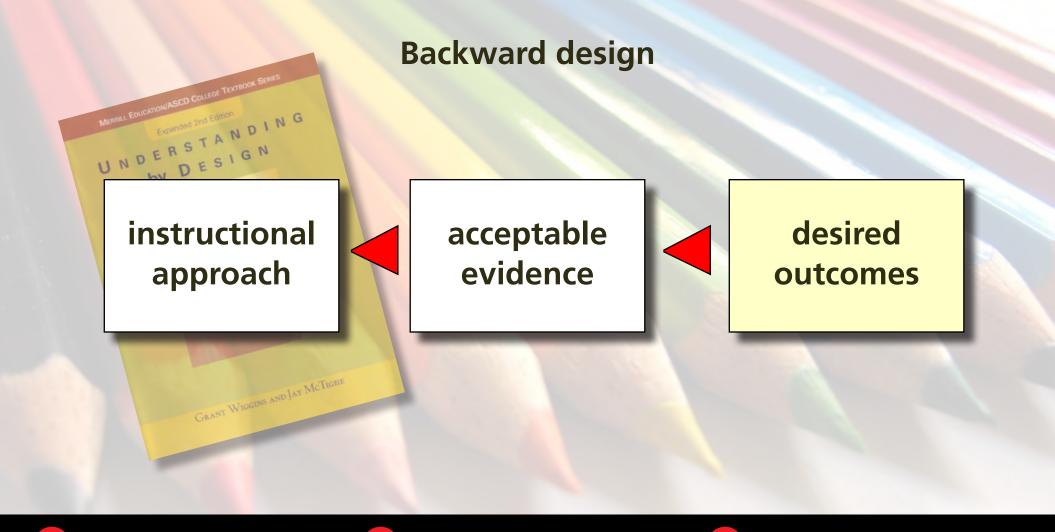




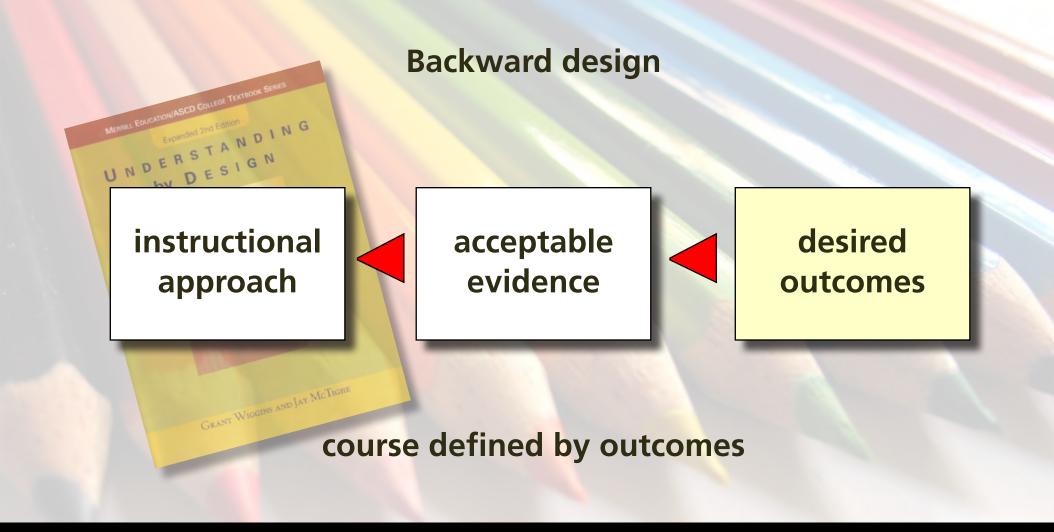
2 problems



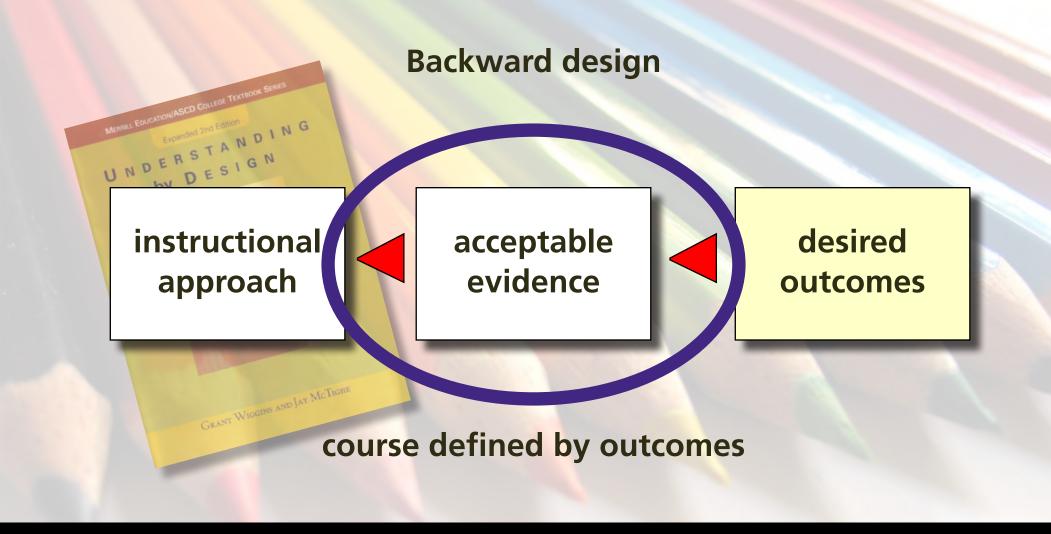
2 problems



2 problems



2 problems



2 problems



resolve coach/judge conflict

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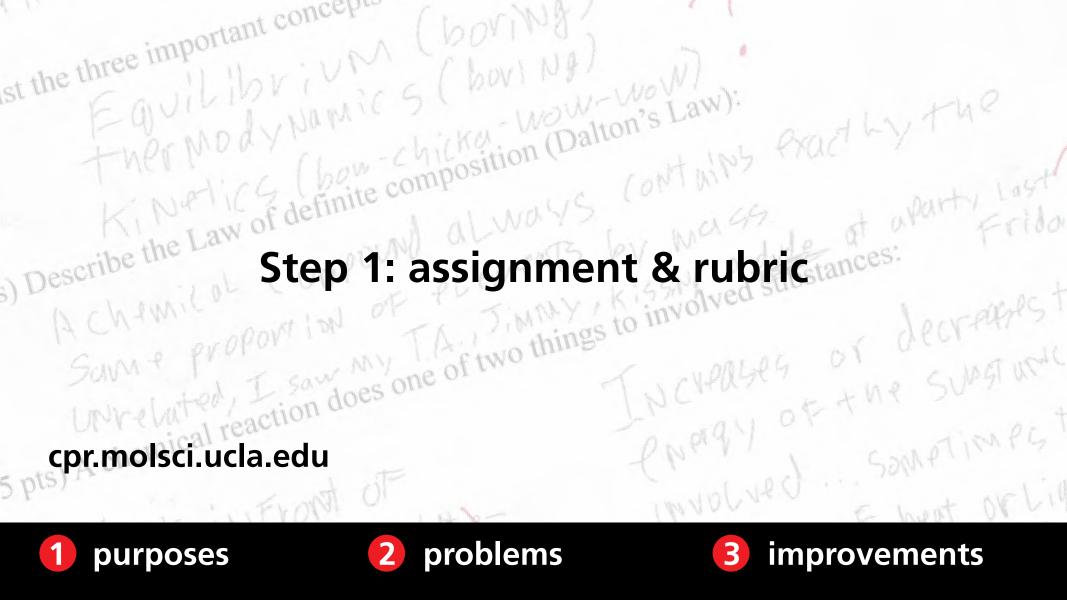
The proportion of two things to involved substances: INVOLVED ... SOMPTIMPS T INFRONT OF = lowert OF Lie problems improvements purposes

st the three important concepts Equilibrium Looving, Describe the Law of definite composition (Dalton's Law): Thermody Namics (boring) Describe the proportion of two things to involved stostances:

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hemical reaction does one of two things The late of two things to involved sure of two things to involved sure of two things to involved sure of two things. ENPRAY OF + MA SUNSTURME INVOLVED ... SOMPTIMPS + INFRONT OF = lowat OF Lia problems improvements purposes

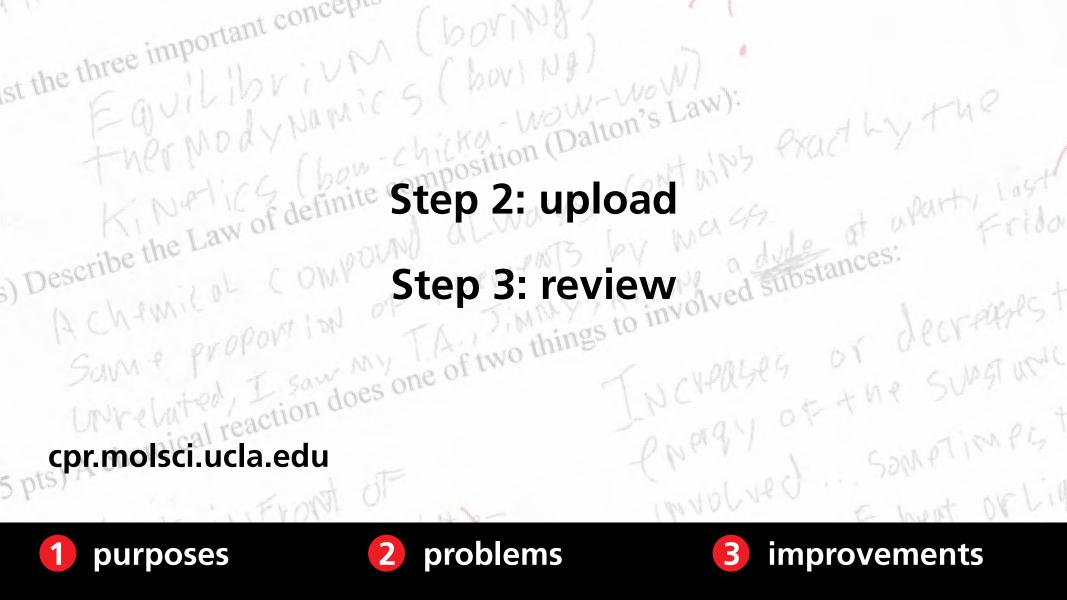




st the three important concept 3 = aann exceeds expectations Catchy title drawing audience into article (rarely selected) WRITING RUBRIC 2 = Satisfactory Compelling audience appropriate hook or lead present AND first few paragraphs orient (what you should aim for) $_{1}$ = $_{\rm needs}$ improvement 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 conce MEDIUM

_{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

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 n at the amazing sight. As of press t

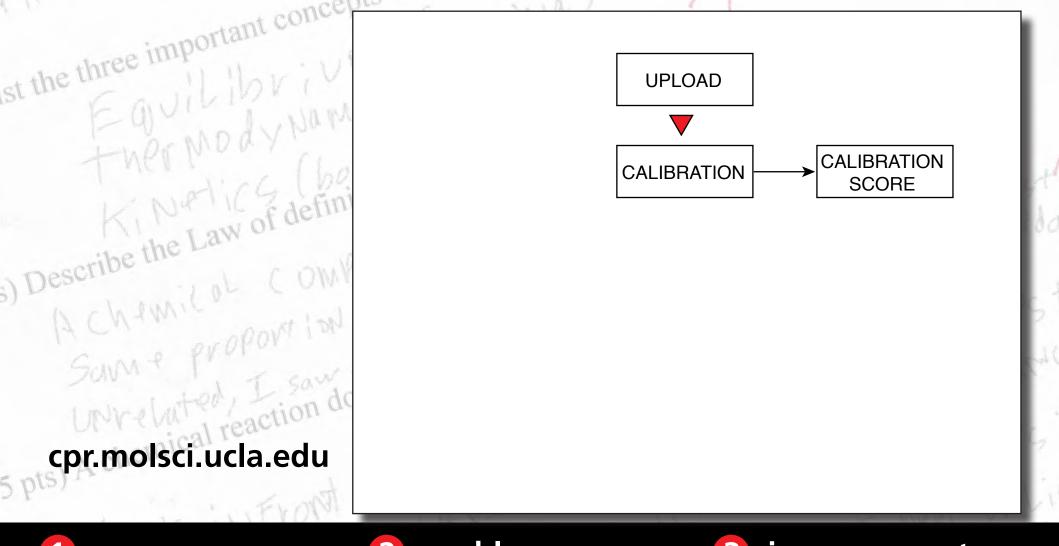
Galileo

20 January 2008

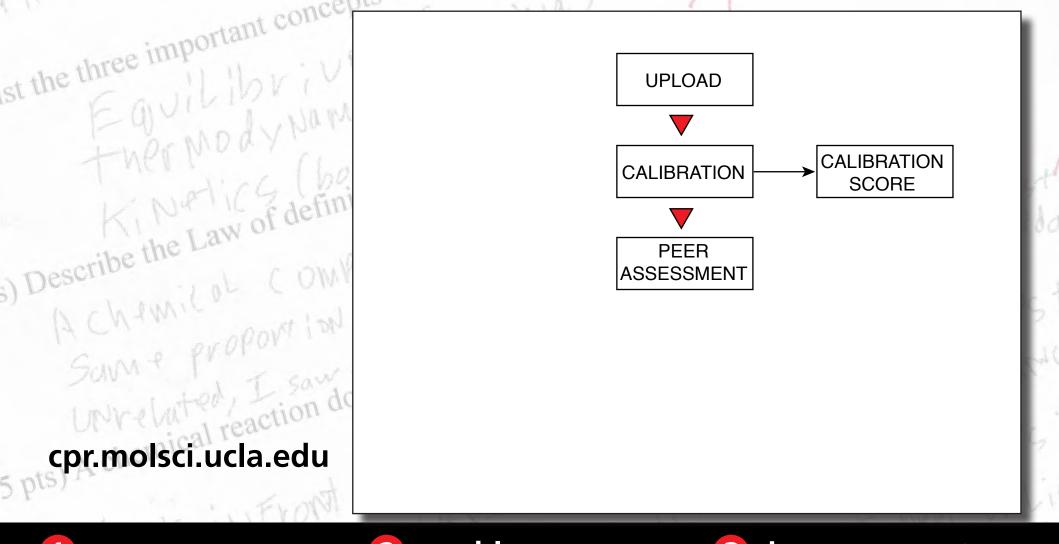
Yesterday at about 4 p.m., I observed a pec appeared in the sky. A glowing flash emitted seconds, accompanied its appearance. The c it even in broad daylight. How did this unprece its consequences for Earth? In order to unders on Earth will most likely ever see again, we hav galaxie. To fully appreciate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

new and glaring addition that To many fears is in purposes

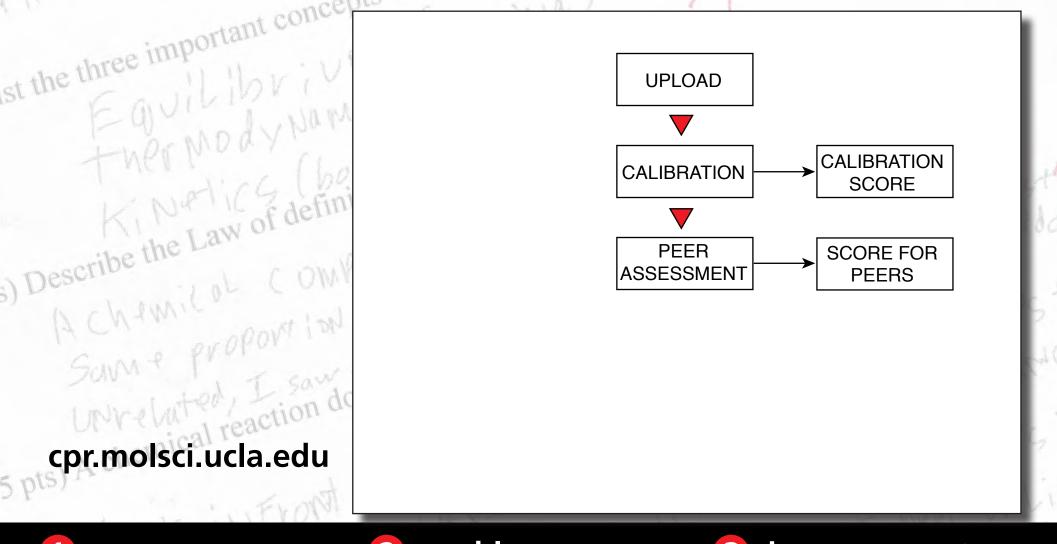
problems



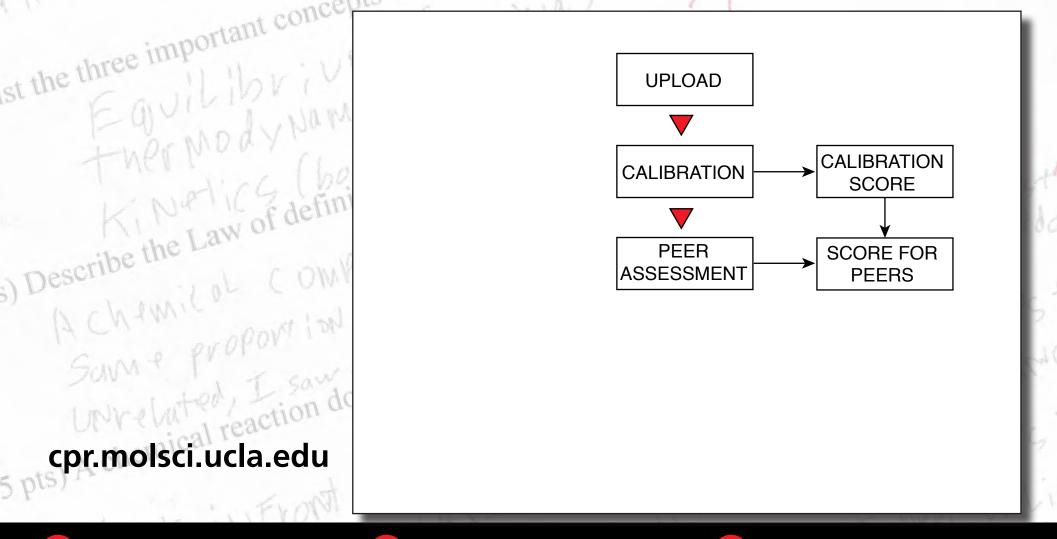
2 problems



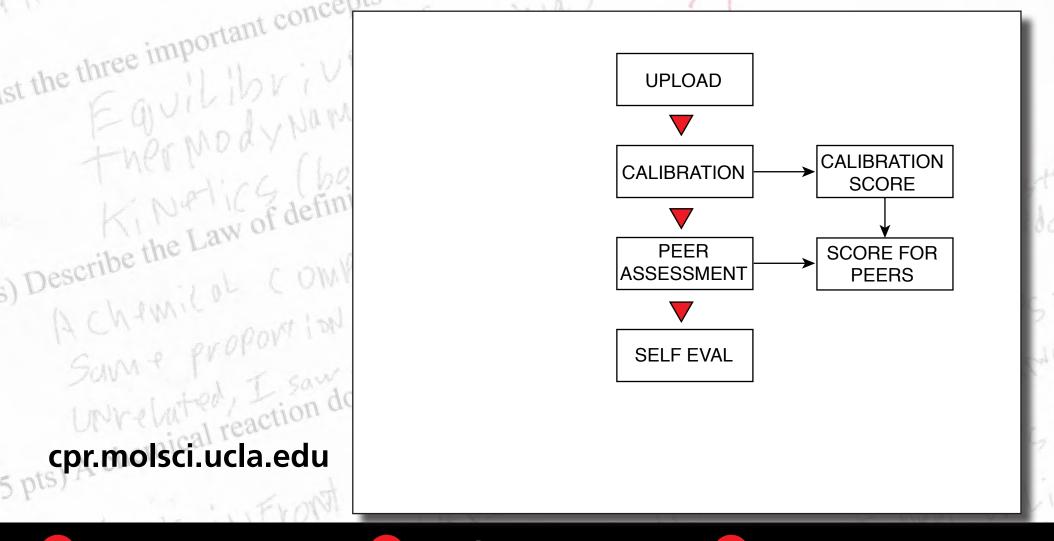
2 problems



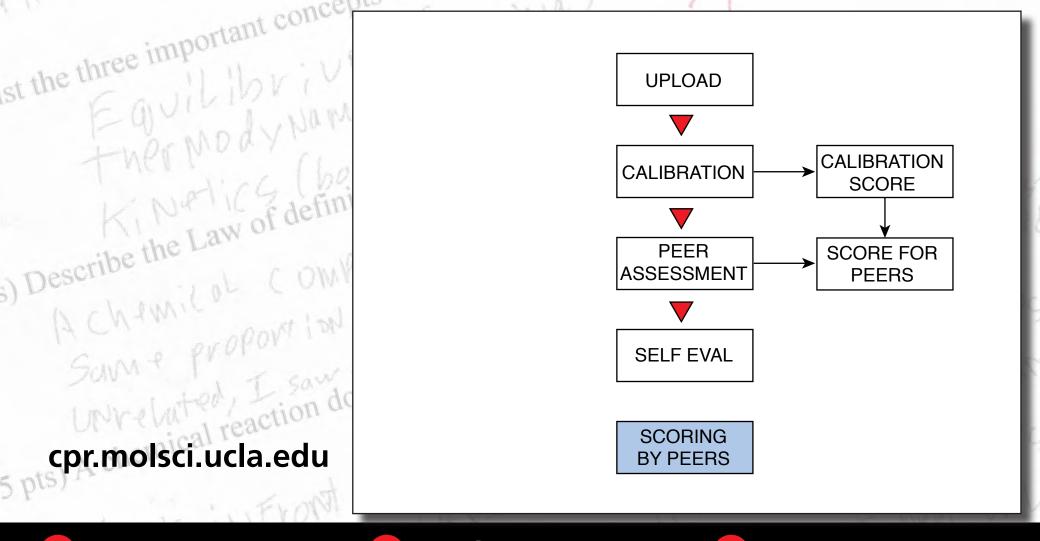
2 problems



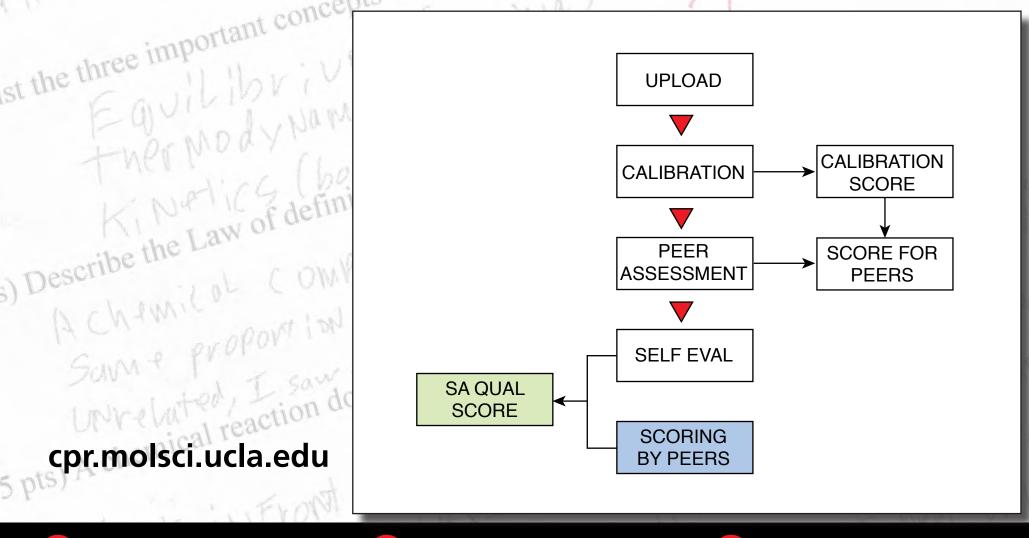
2 problems



2 problems



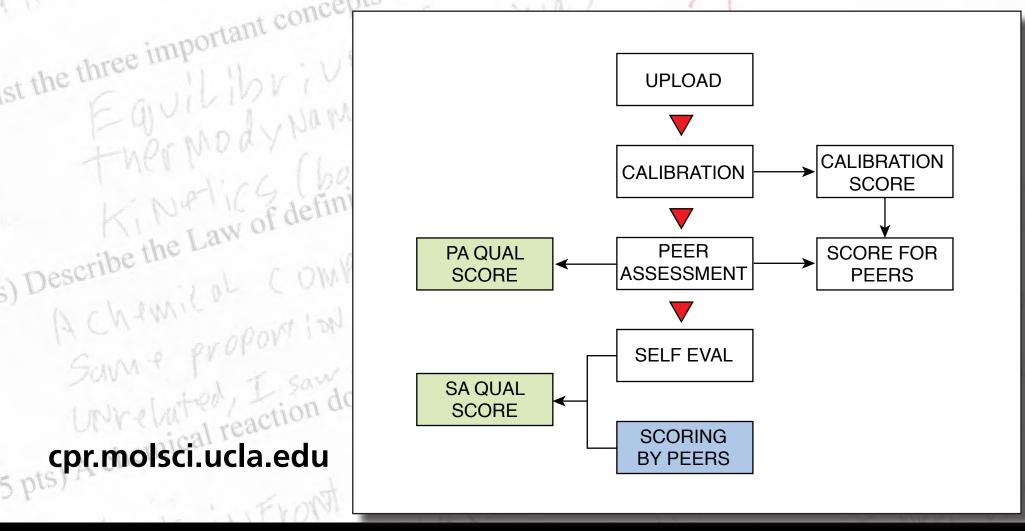
2 problems



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purposes

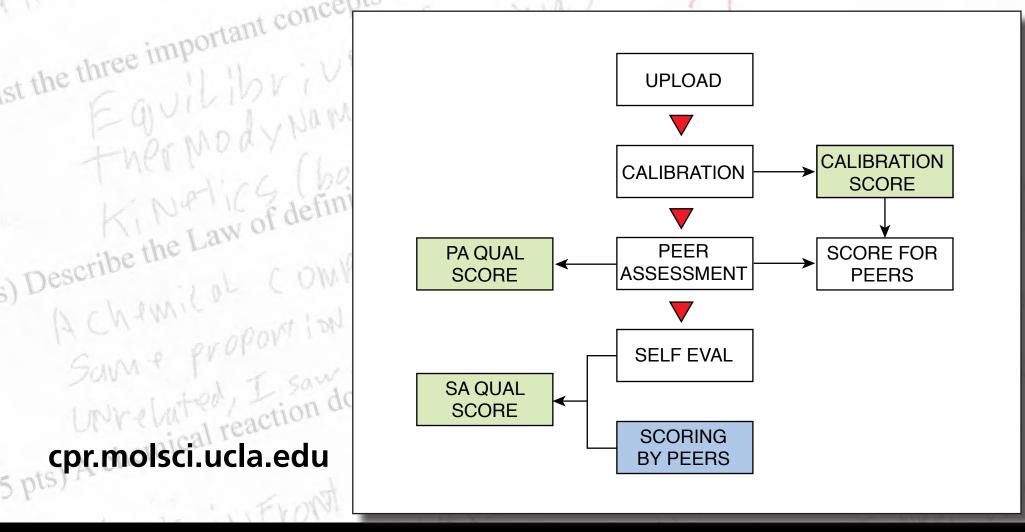
problems



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purposes

problems



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purposes

problems



rethink assessment



