Assessment: The double-edged sword of learning





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35% retained after Week

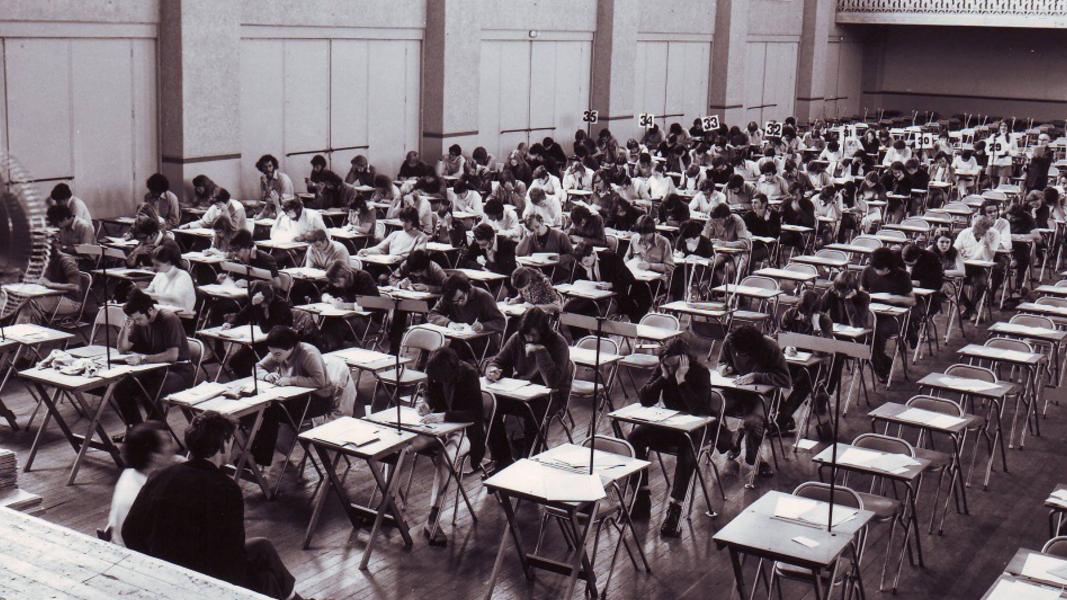
we only guarantee they'll pass the test



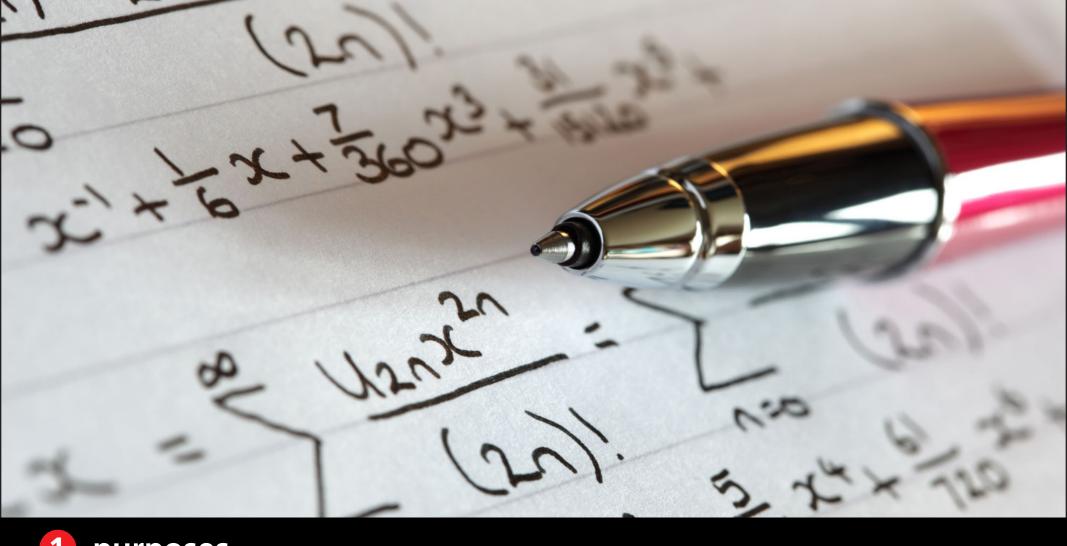
















problems

improvements

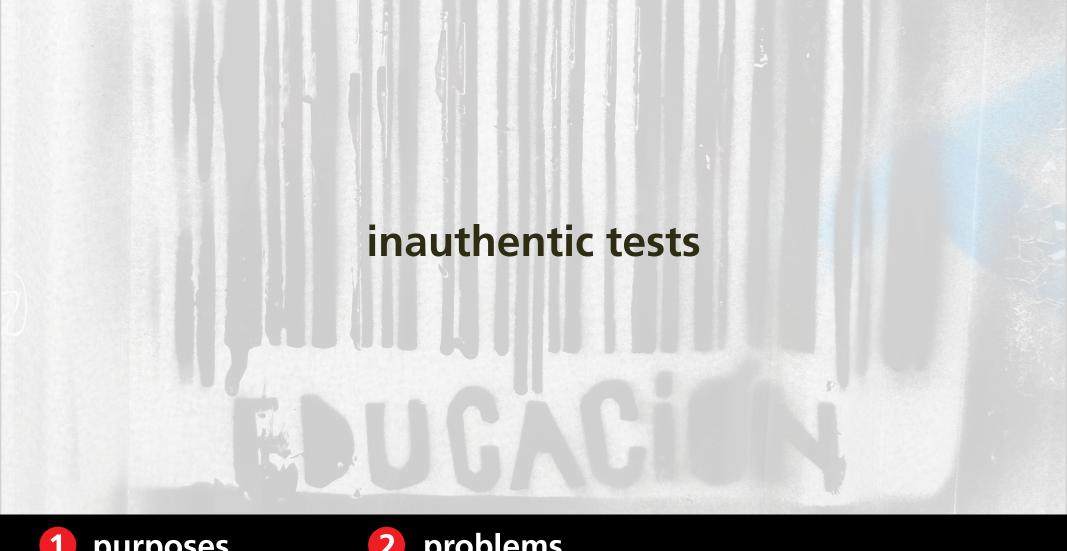
how many different purposes of assessment can you think of?

- 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

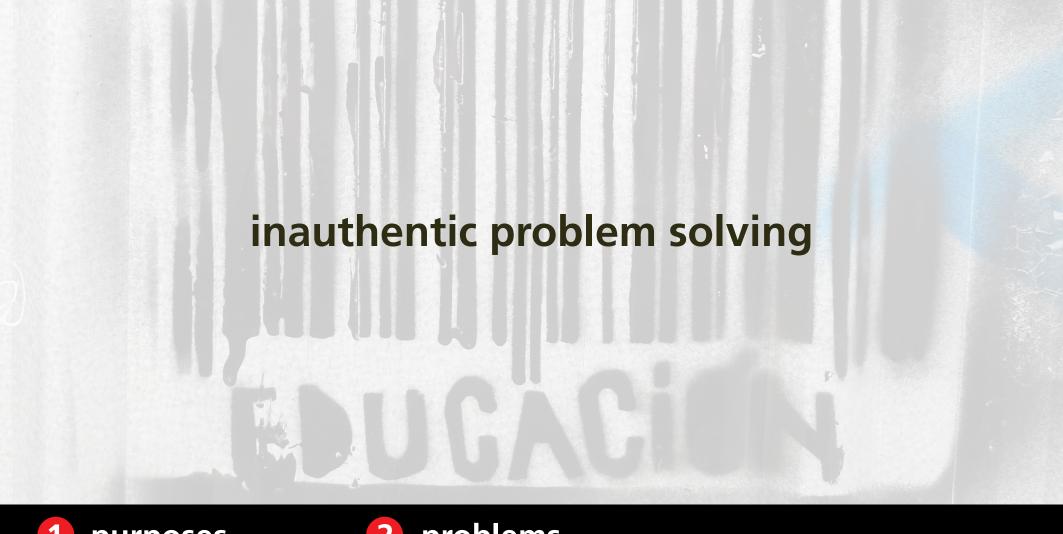


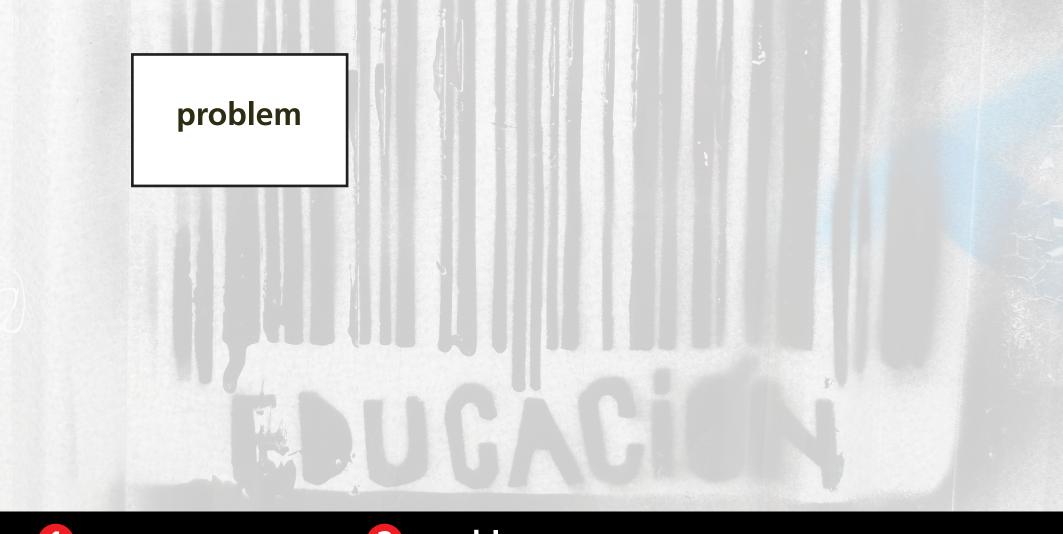
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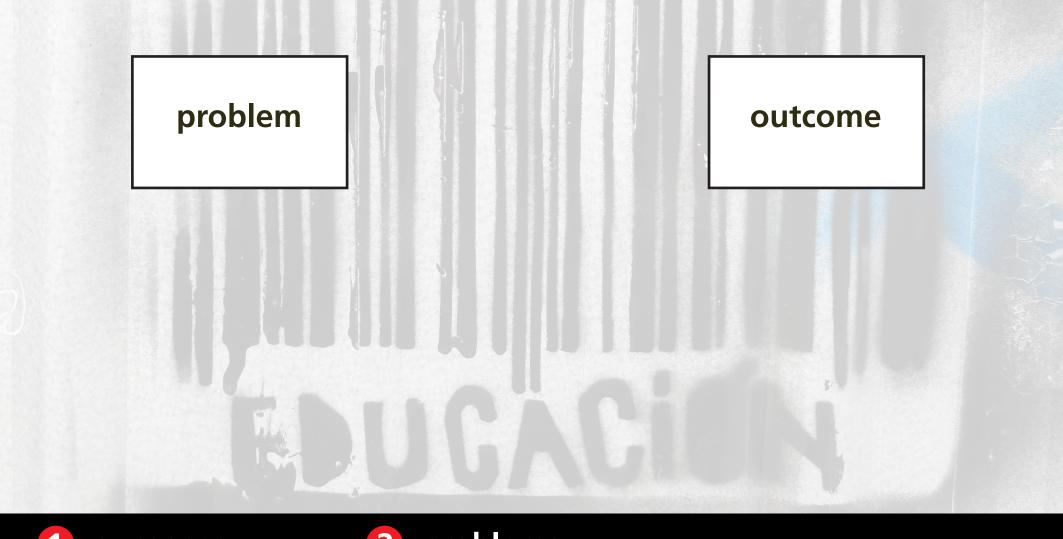


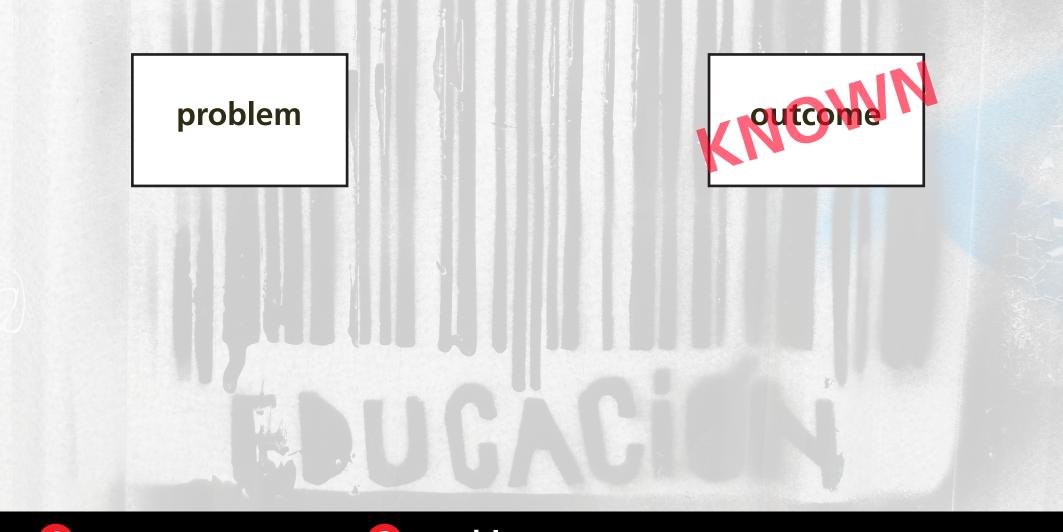


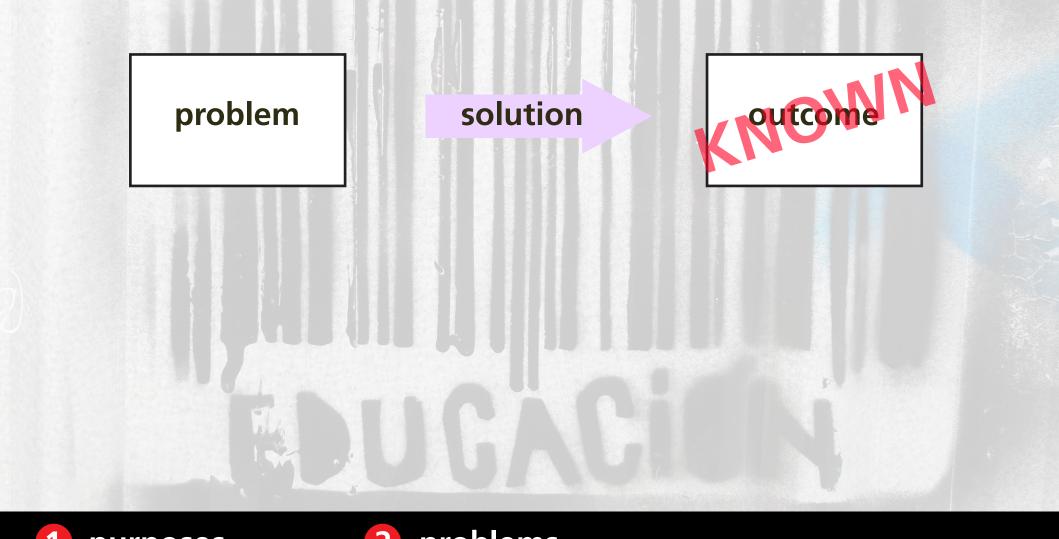
what is the meaning/definition of...?

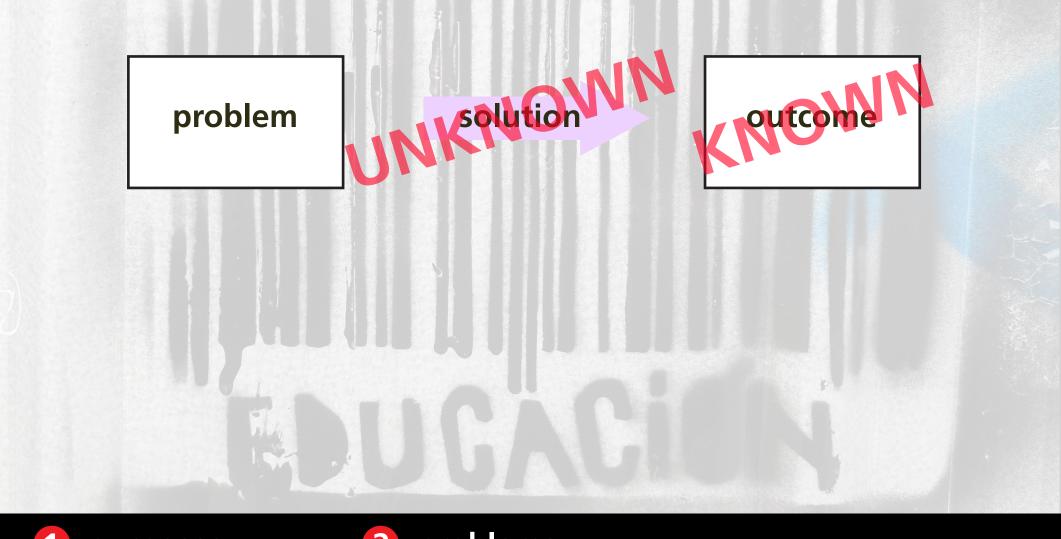


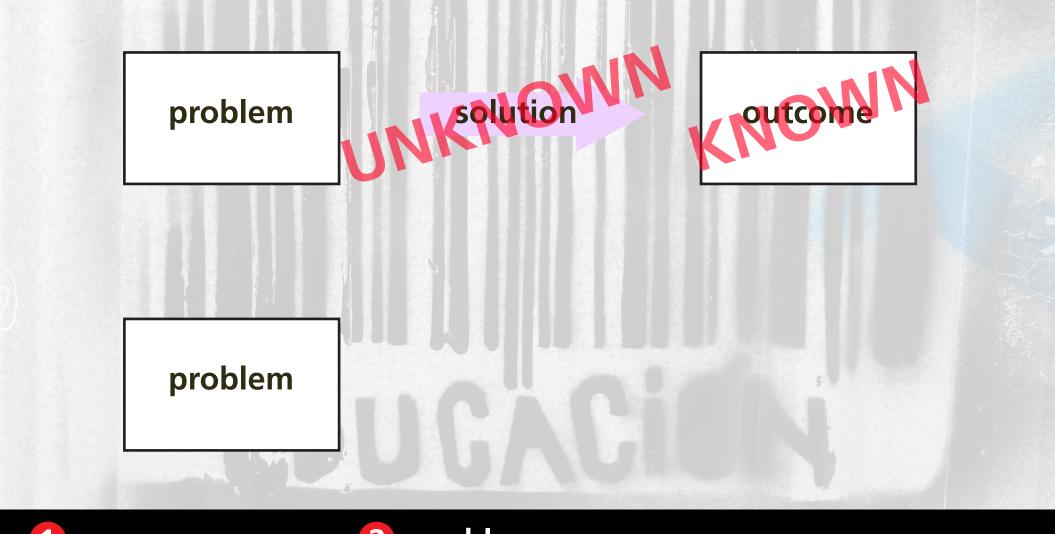






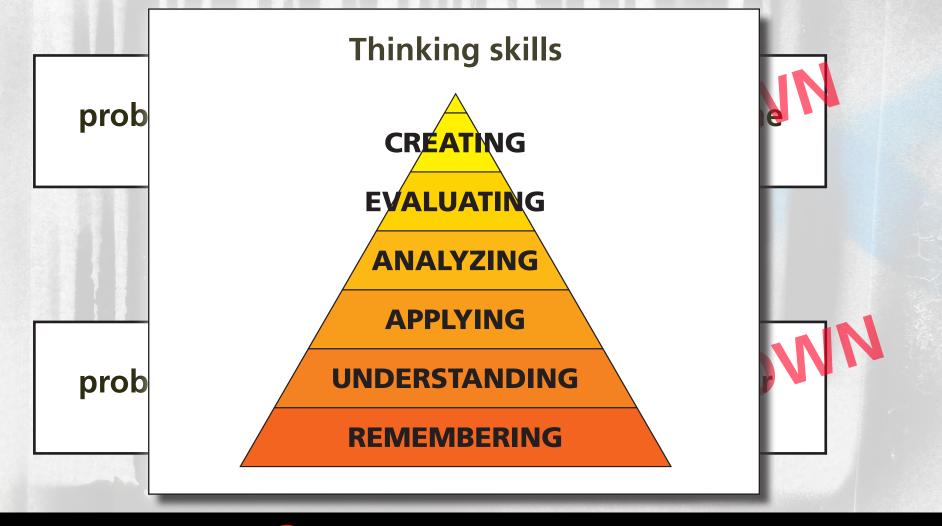












How long do you have to wait before someone frees up a space?

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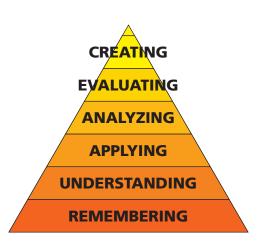
Requires:

Assumptions
Developing a model
Applying that model

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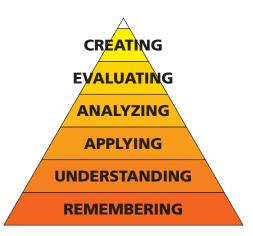


On a Saturday afternoon, you pull into a parking lot with unmetered spaces near a shopping area. You circle around, but there are no empty spots. You decide to wait at one end of the lot, where you can see (and command) about 20 spaces. On average people shop for 2 hours.

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

Requires:

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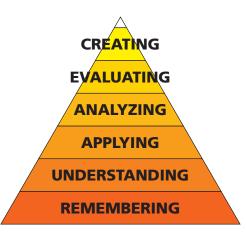


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Assuming people leave at regularly-spaced intervals, how long do you have to wait before someone frees up a space?

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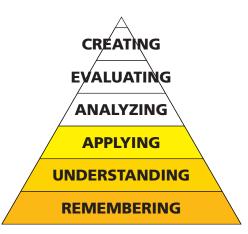


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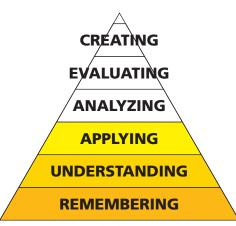
CREATING
EVALUATING
ANALYZING
APPLYING
UNDERSTANDING
REMEMBERING

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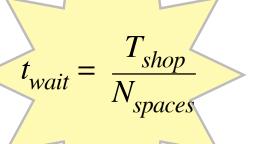
$$t_{wait} = \frac{T_{shop}}{N_{spaces}}$$

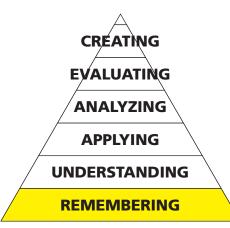


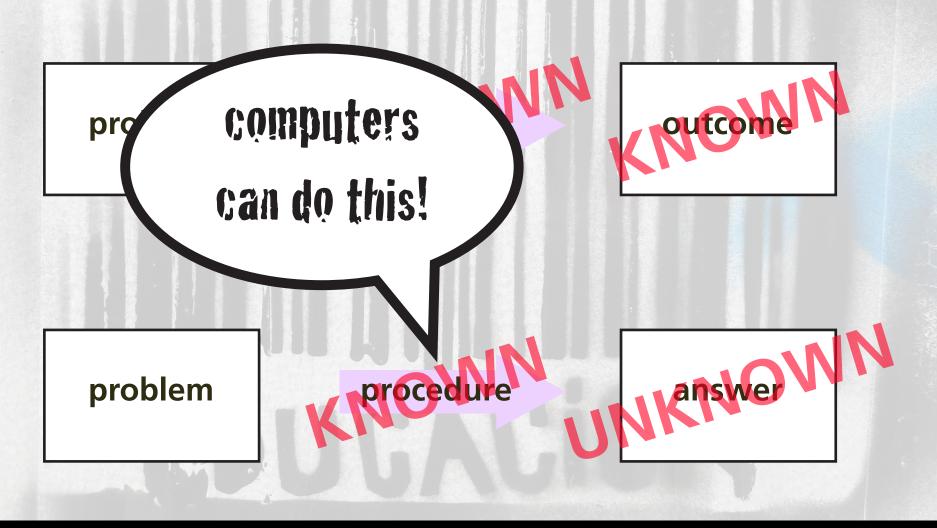
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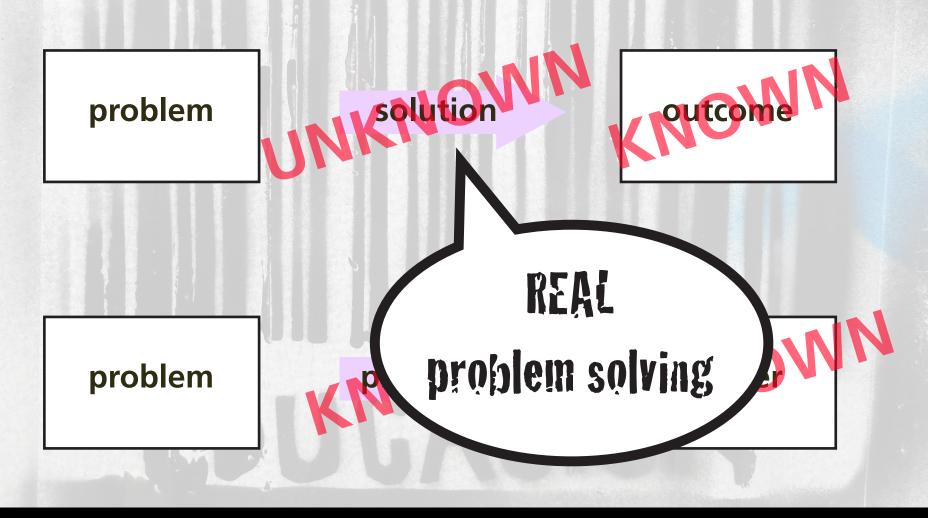












problem

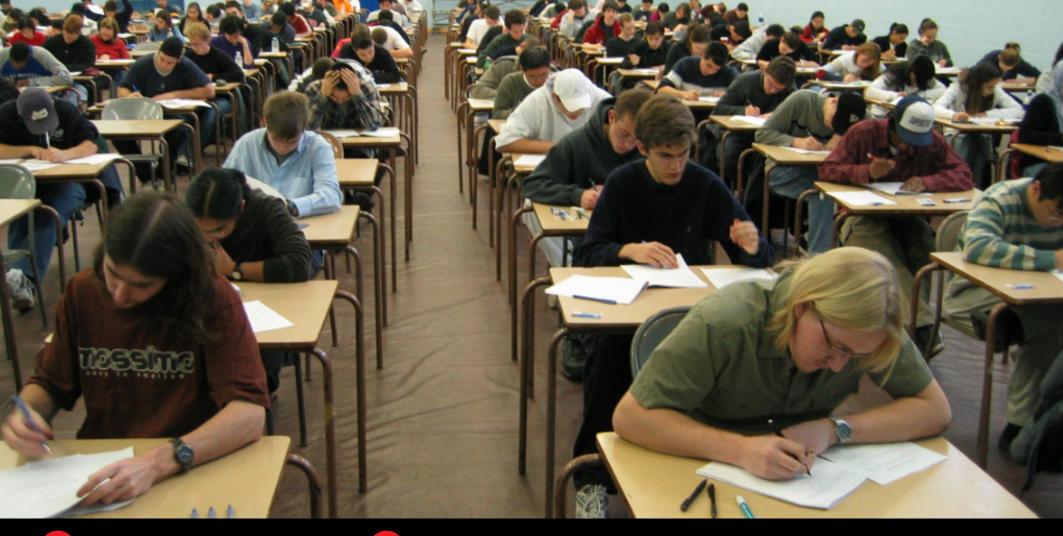
approach 1

approach 3

approach 2

outcome

grading incompatible with real problem solving





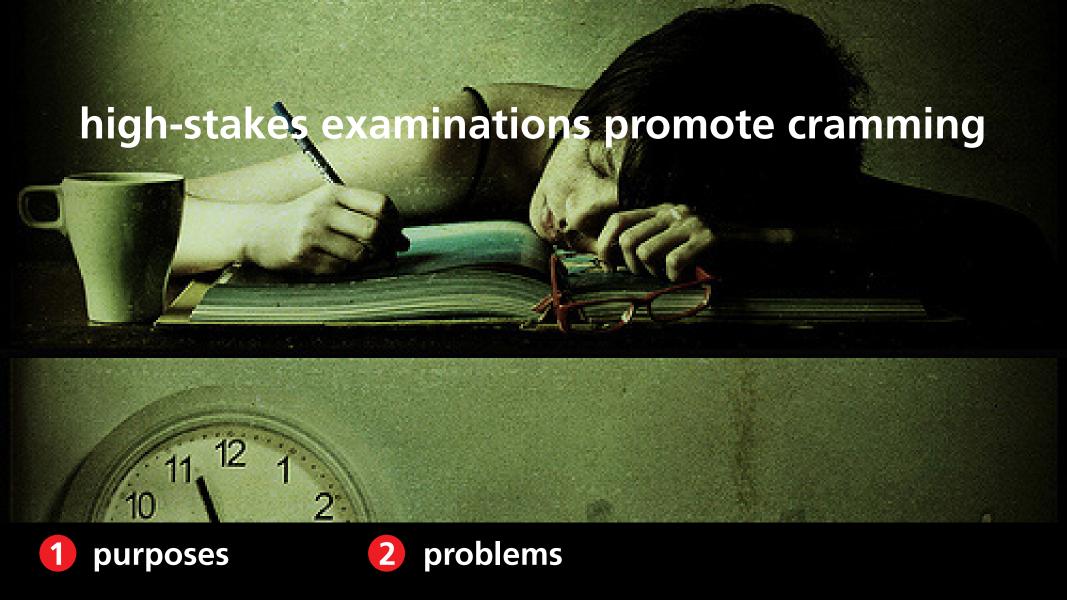
Math. 302-02, Final stam

(4) We will use spherical coordinates:

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

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

1 purposes



information stored in short-term memory





scribe the Law of conservation or mass. John Times Care LOW, States that mass or a co WILL YOMAIN CONSTAINT, repardless of the Process List the three important concepts that the three important concepts the three impor Equilibrium (boring) + nermody Namics (bovINg) The the Law of definite composition (Dalton's Law): wound always contains exactly the a dule at aparty Las problems purposes

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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)

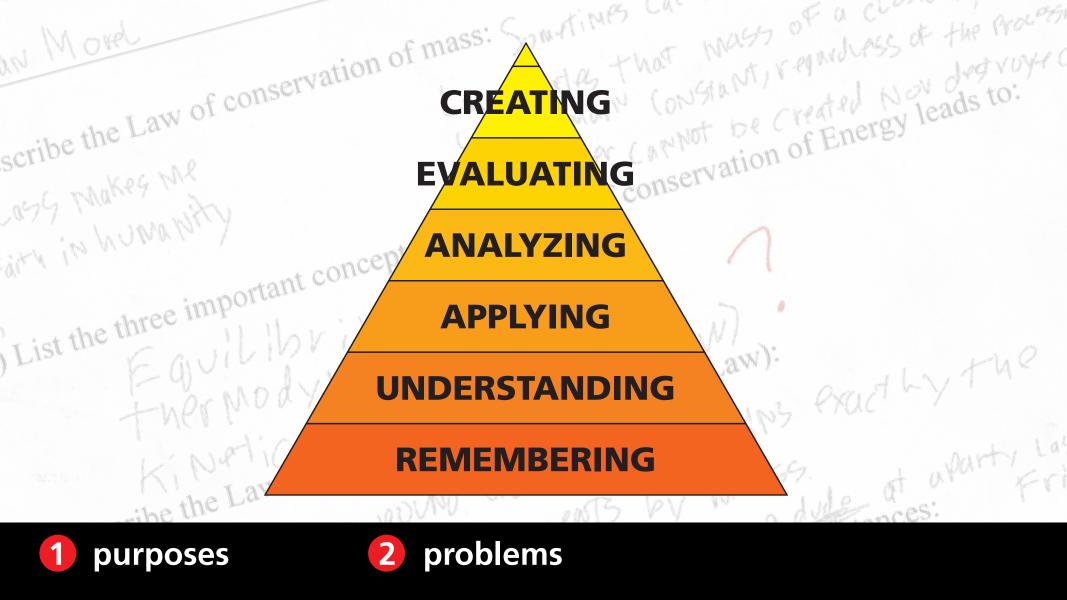
The the Law of definite composition

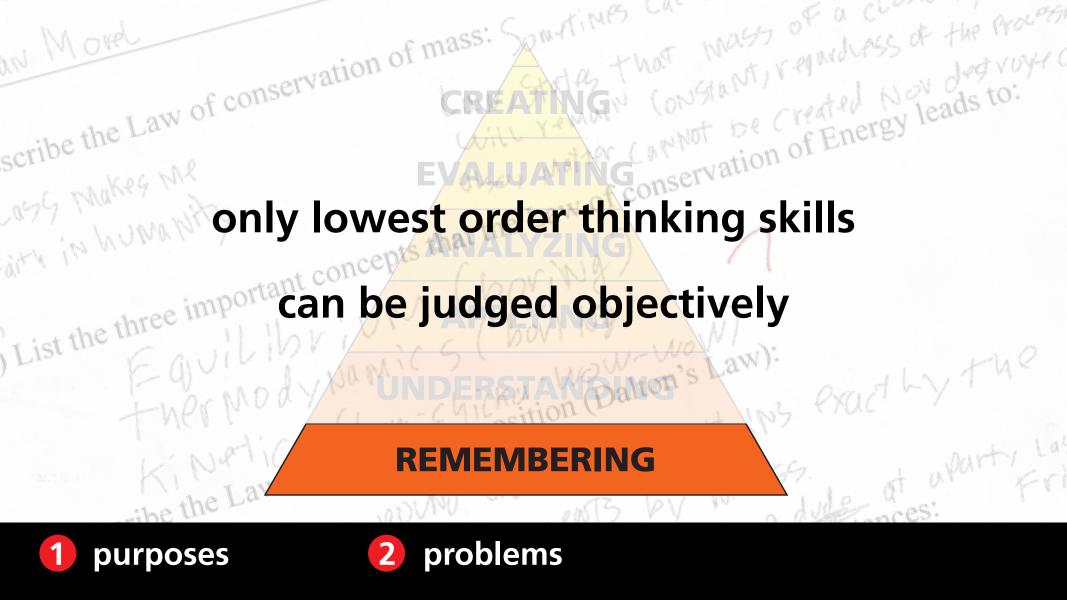
The the Law of definite composition (boy Ng)

The the Law of definite (boy Ng)

The th 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...

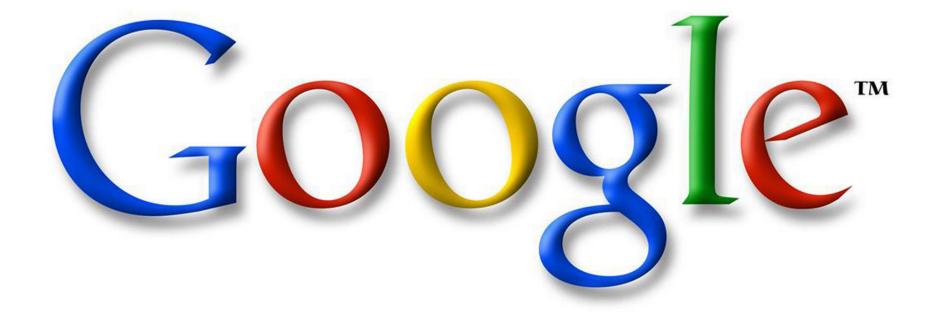
List the three important concepts that the conservation of Energy leads to: e three mine grade inflation The the Law of definite composition (Dalton's Law): wound always contains exactly the a dule at aparty Las problems purposes

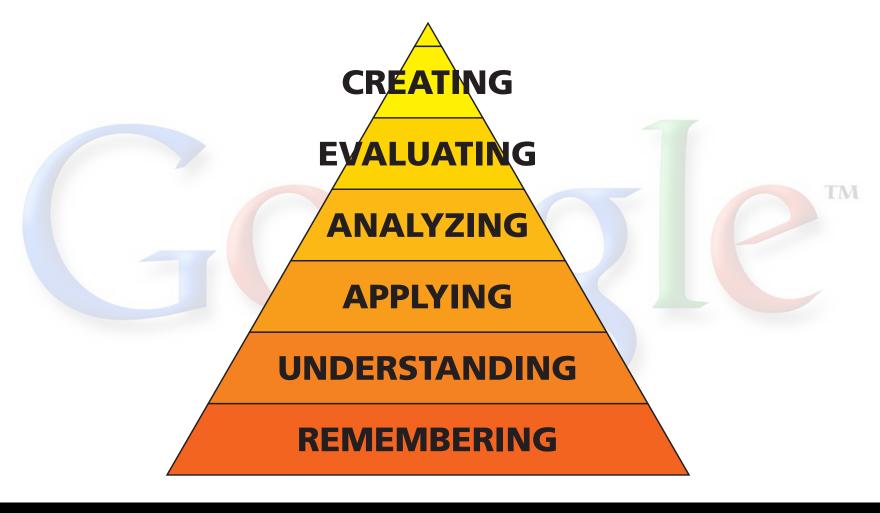




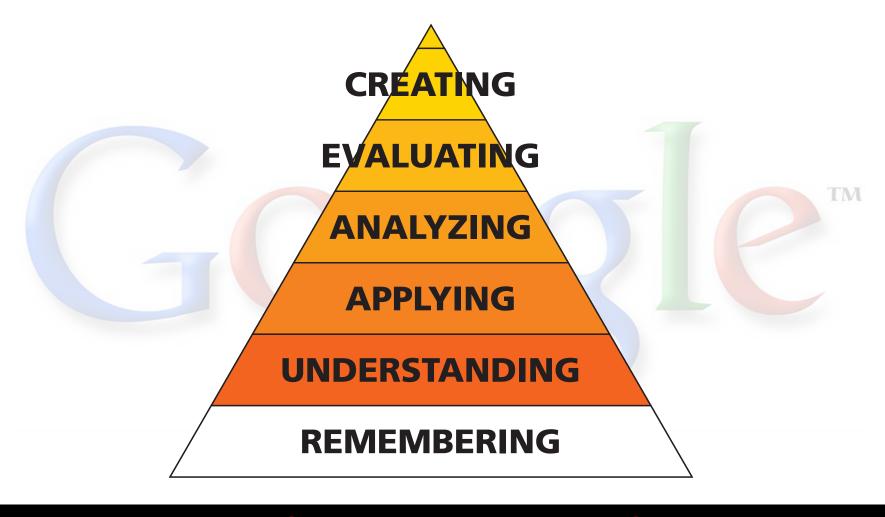
mimic real life

open-book exam





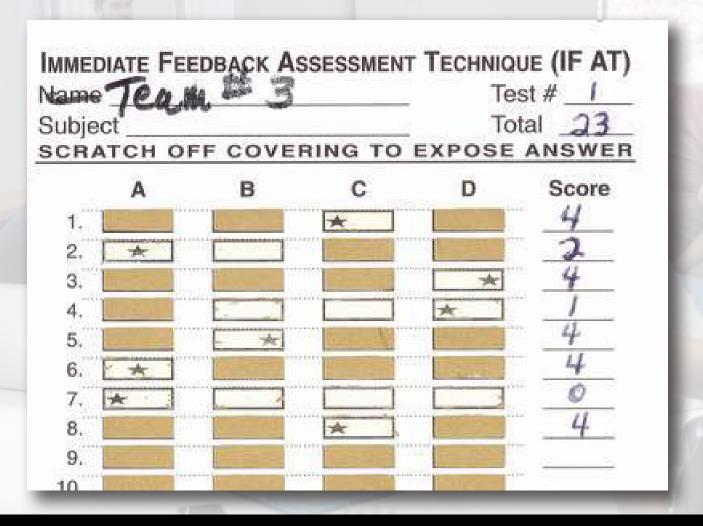
2 problems

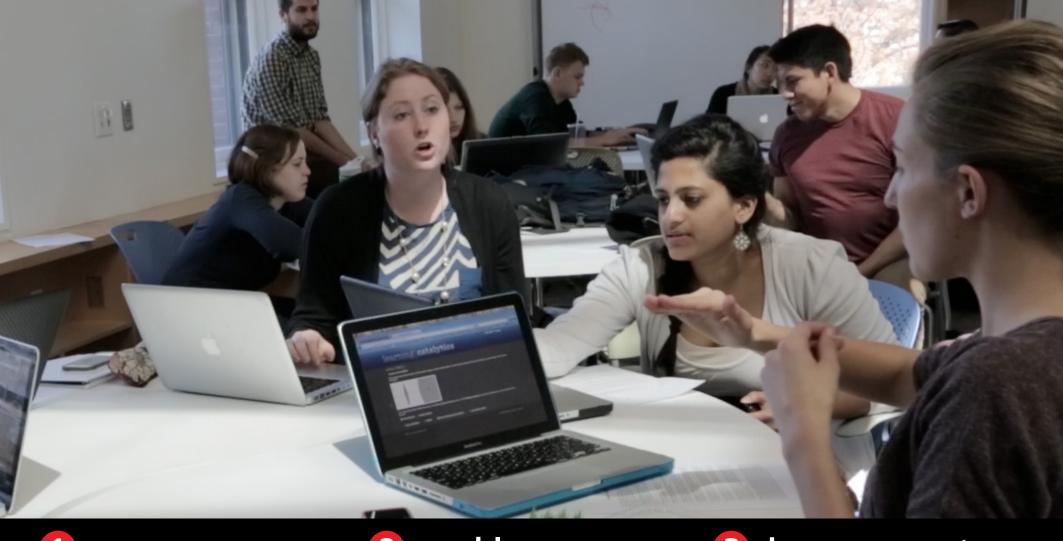


2 problems



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

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This is the individual round;

expression question

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$$6x - 6$$

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

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purposes

2 problems



2 problems

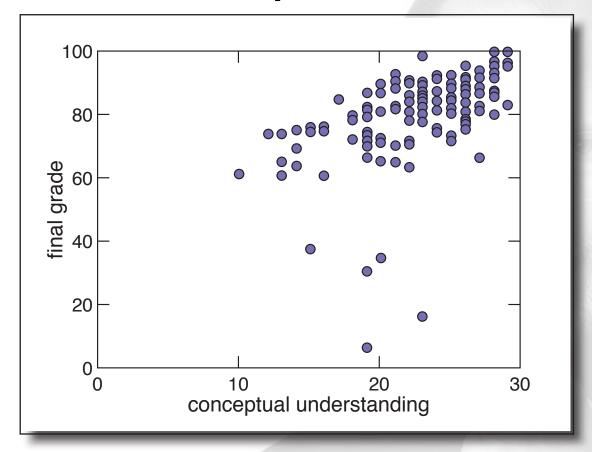


focus on feedback, not ranking

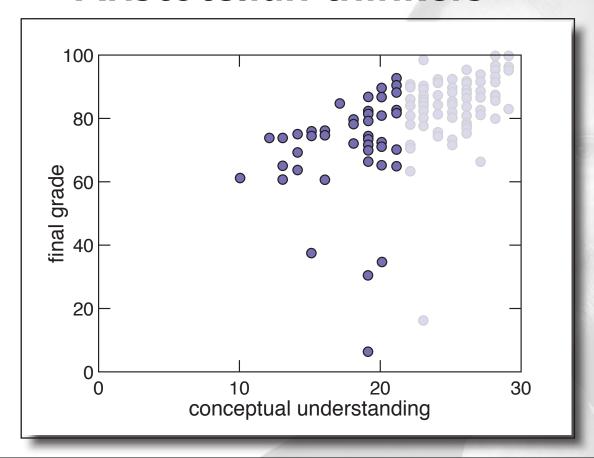
objective ranking: a myth



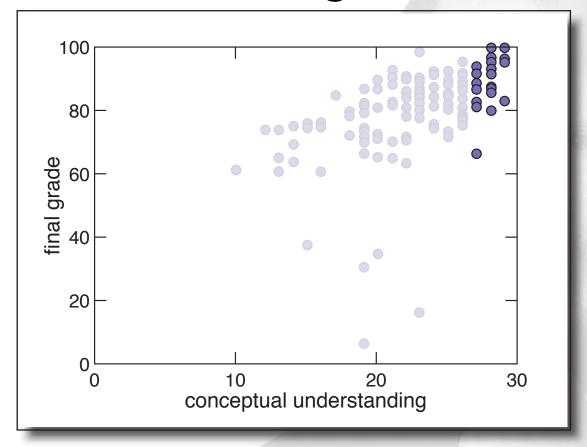
2 metrics, 2 results



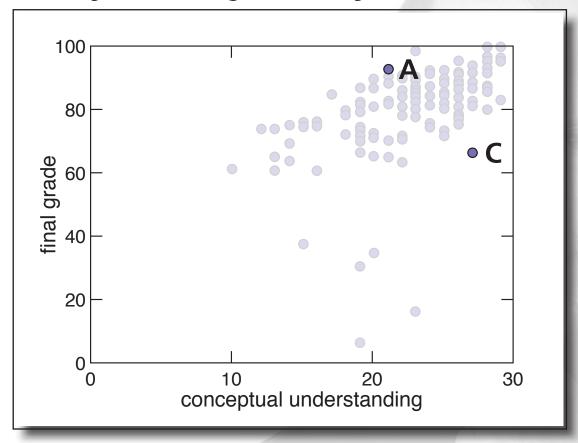
Aristotelian thinkers



top performers, broad grade distribution

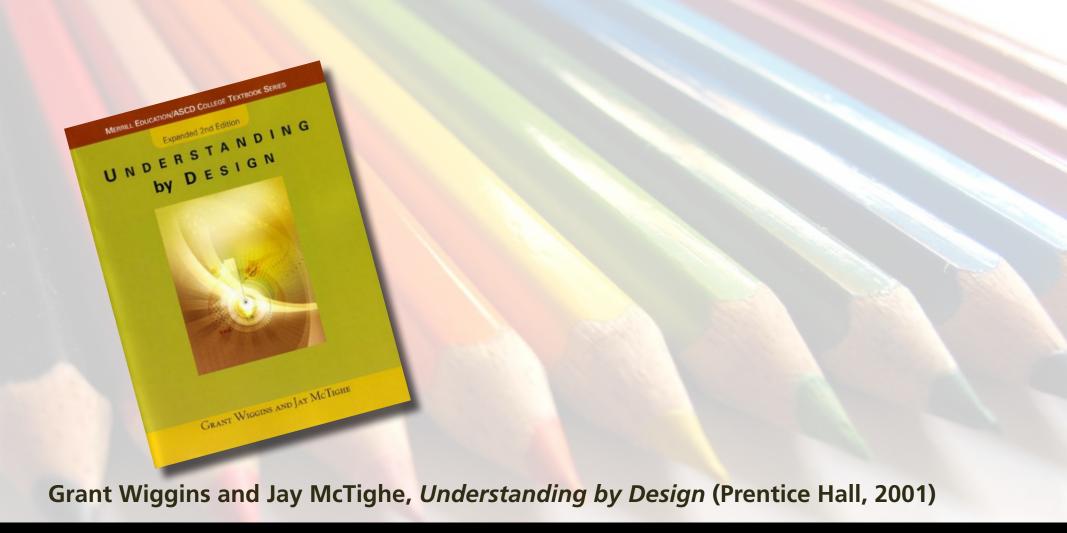


objectivity or injustice?



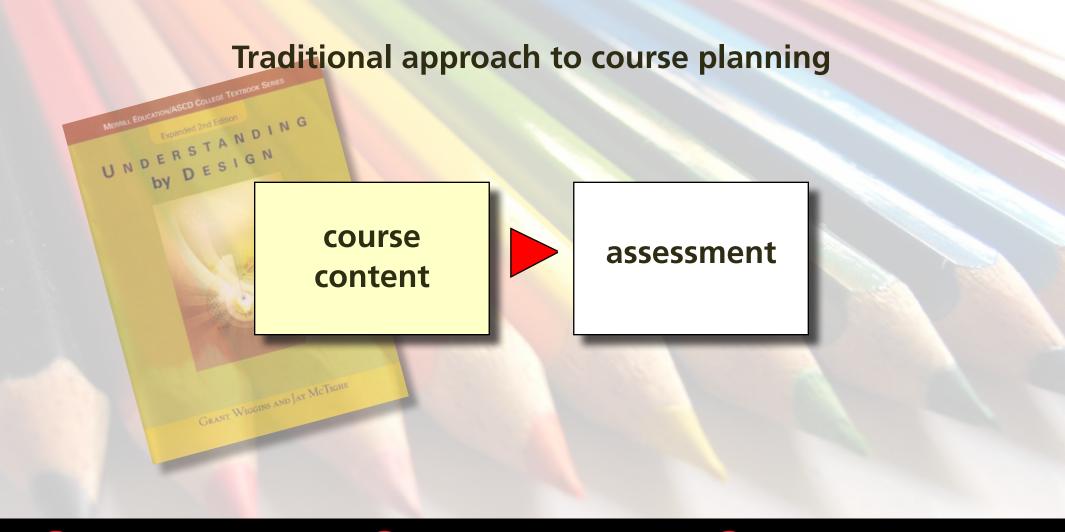


focus on skills, not content



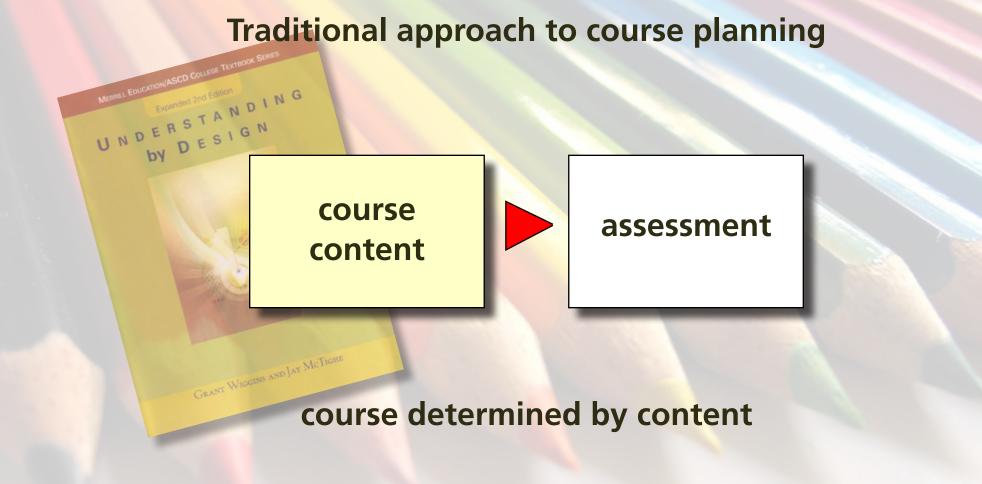
2 problems





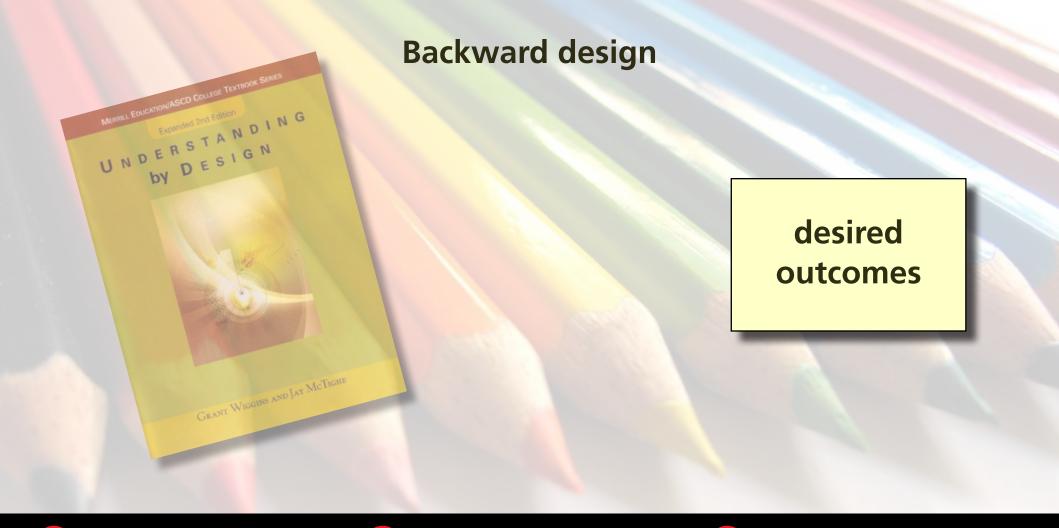




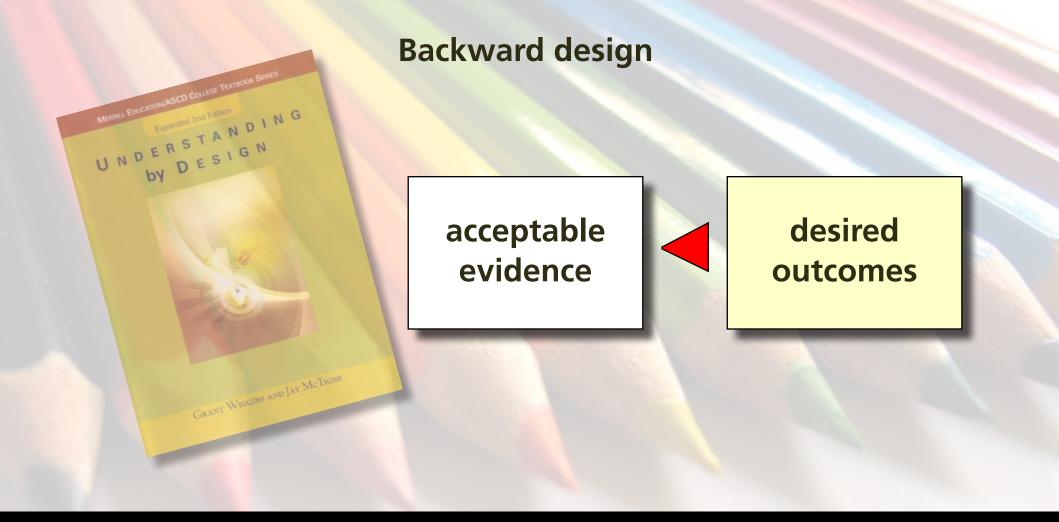




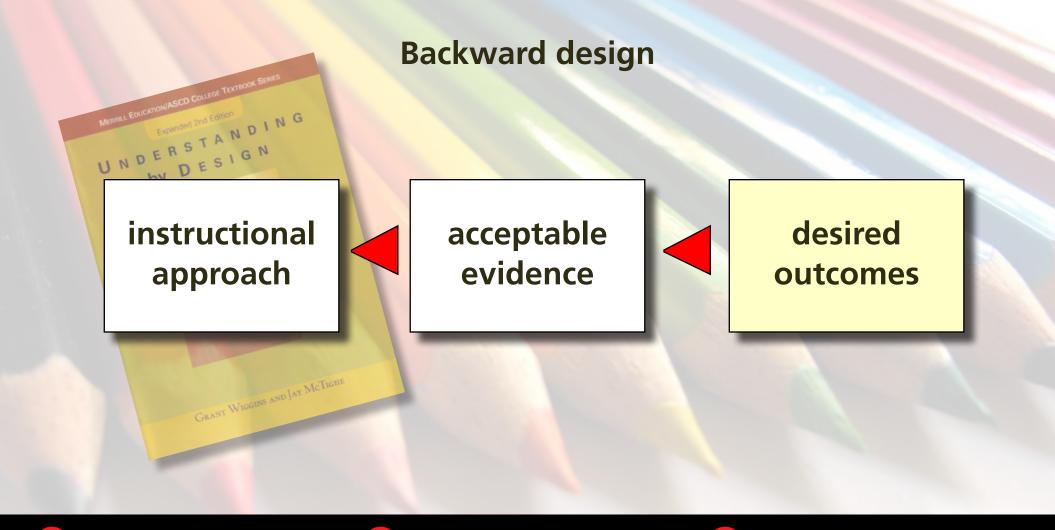




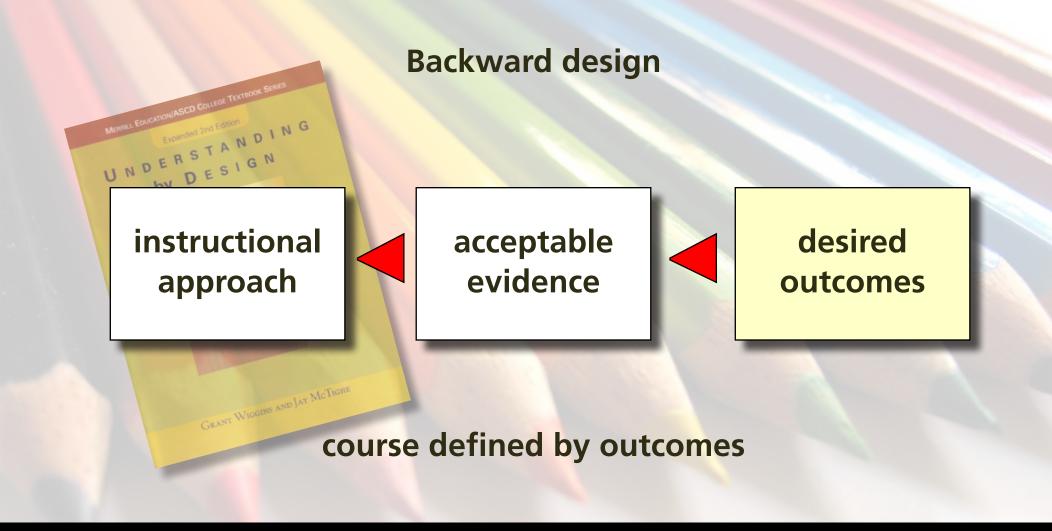
2 problems



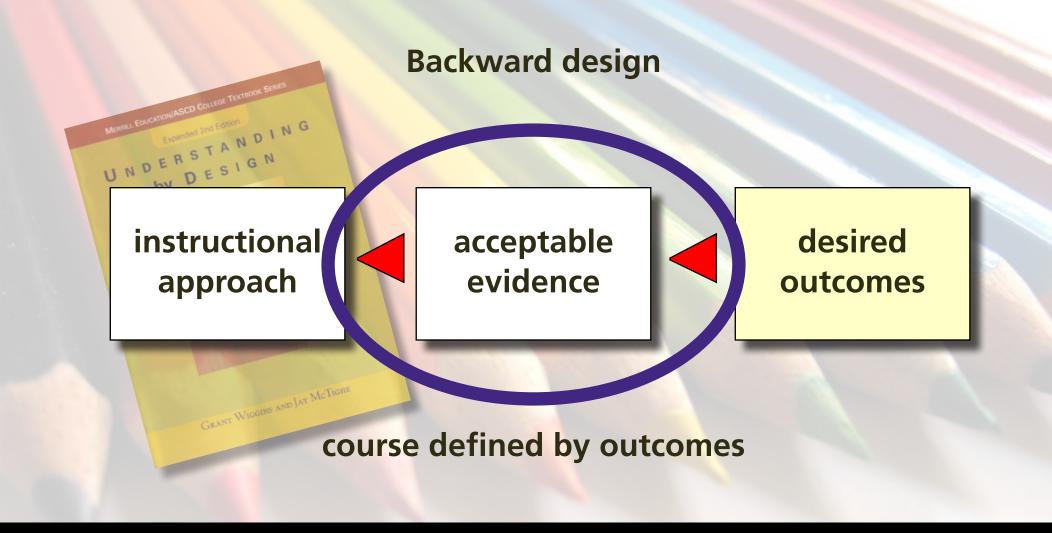
2 problems



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

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

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Contains exact by the contains exact by the contains to involved substances:

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rethink assessment





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