Assessment For and Not Just of Learning



ICTCM 2017 Chicago, IL, 11 March 2017

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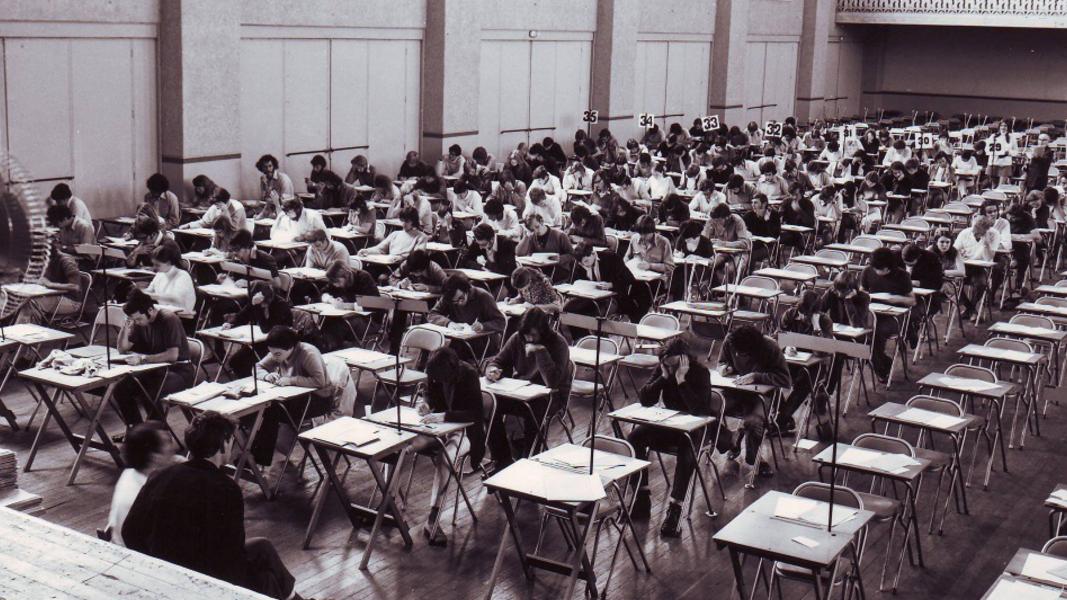
we only guarantee they'll pass the test







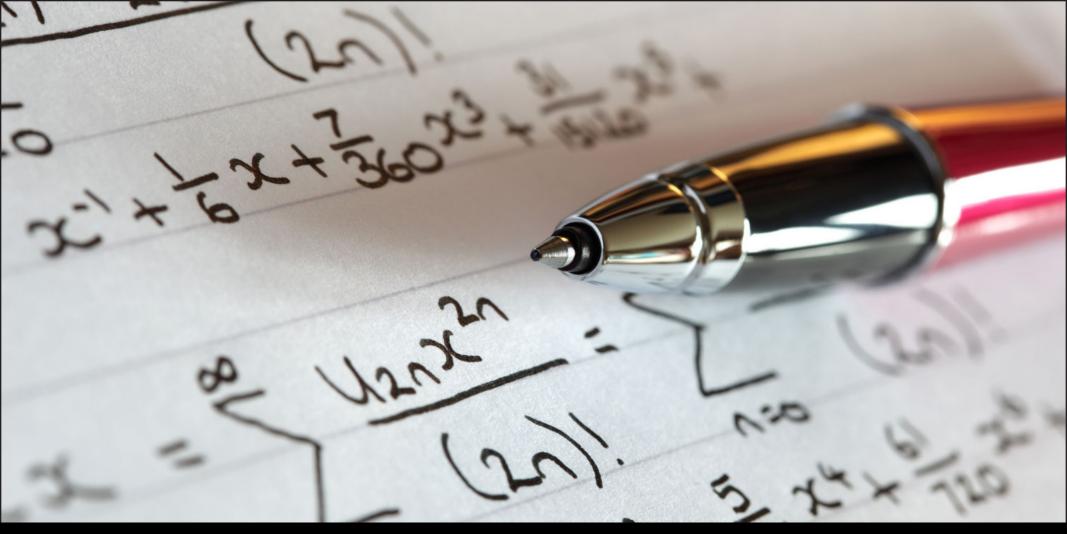


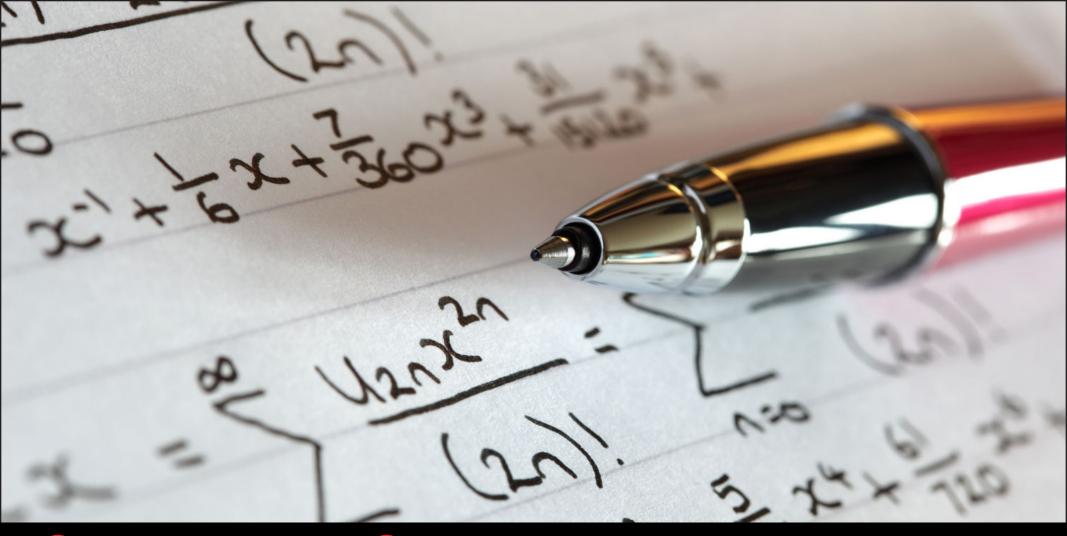


assessment focussed on ranking and classifying,

not on developing 21st century skills

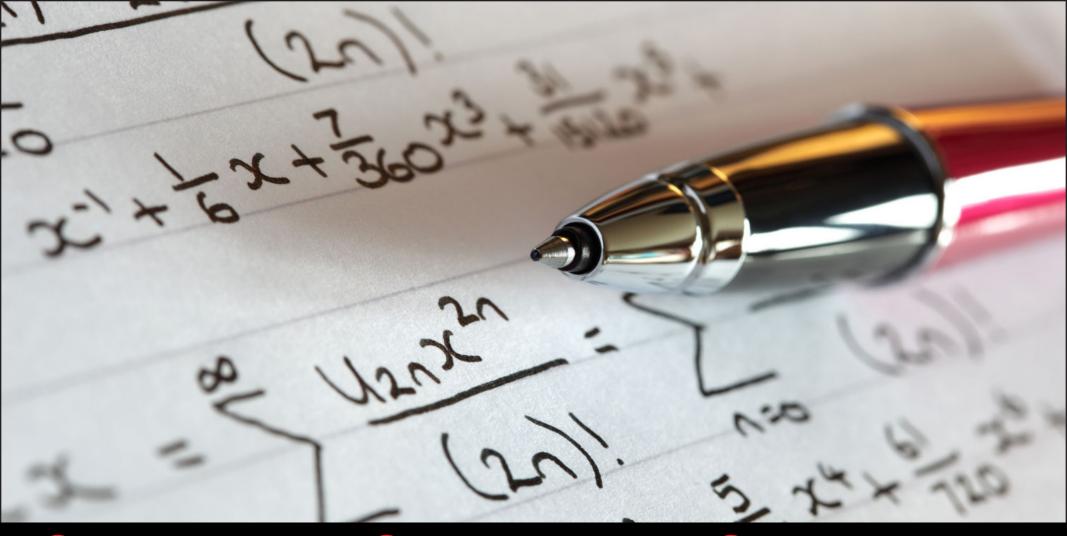


















how many different purposes of assessment can you think of?



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







inauthentic tests





what is the meaning/definition of ...?

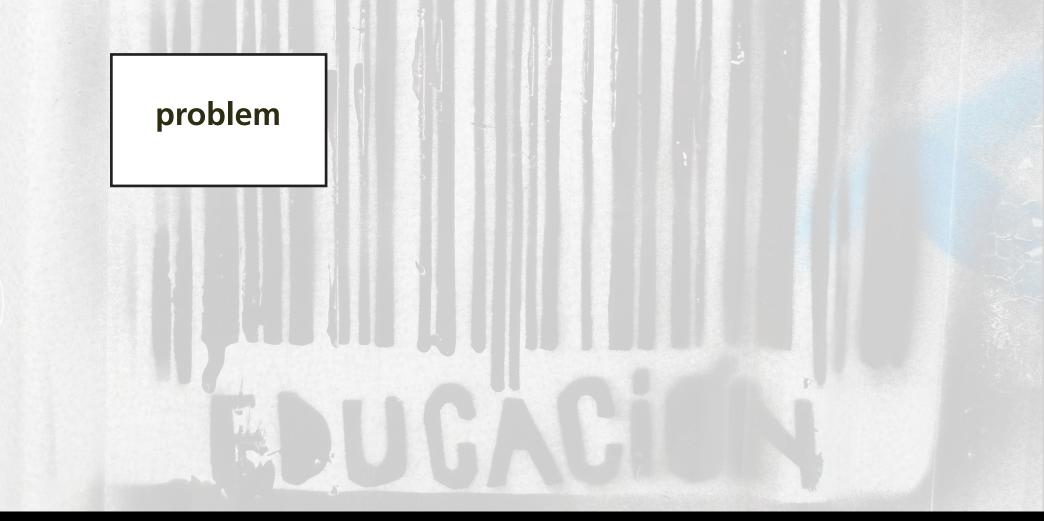




inauthentic problem solving











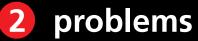


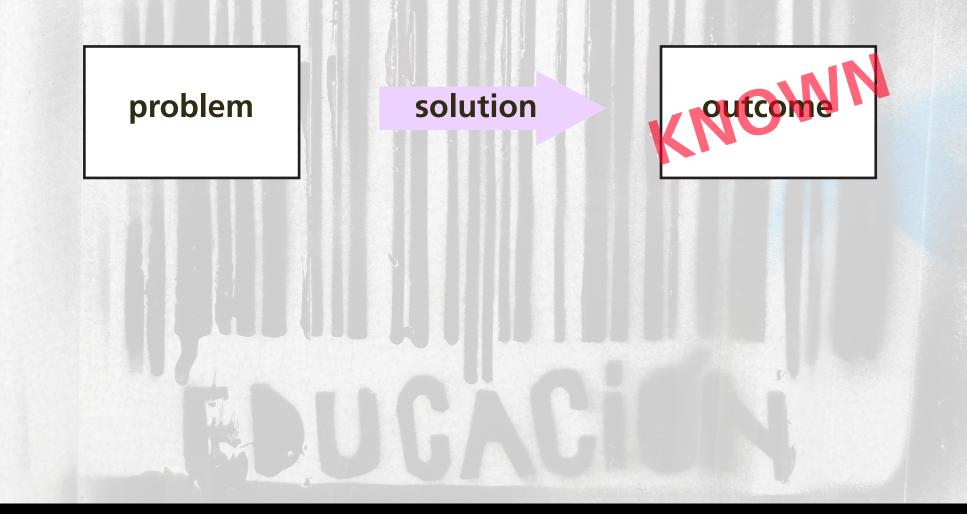




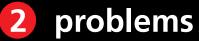


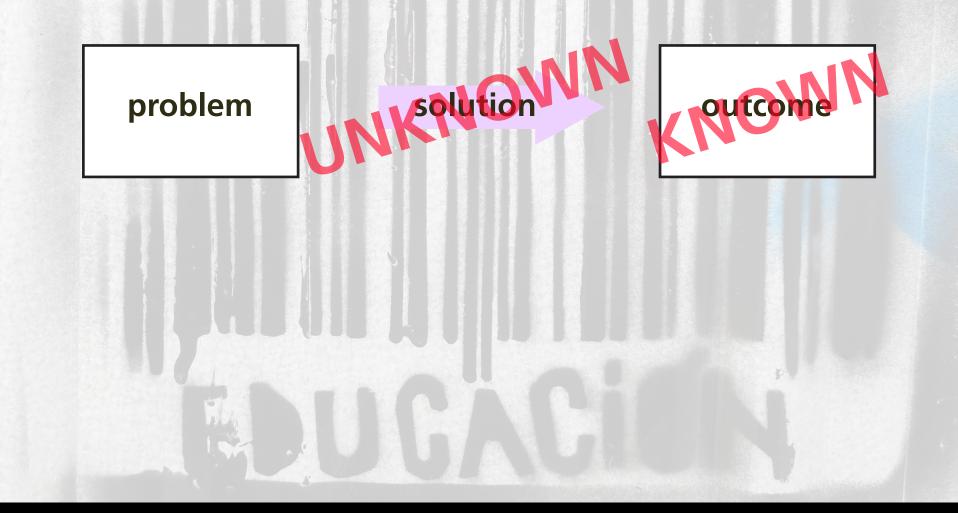






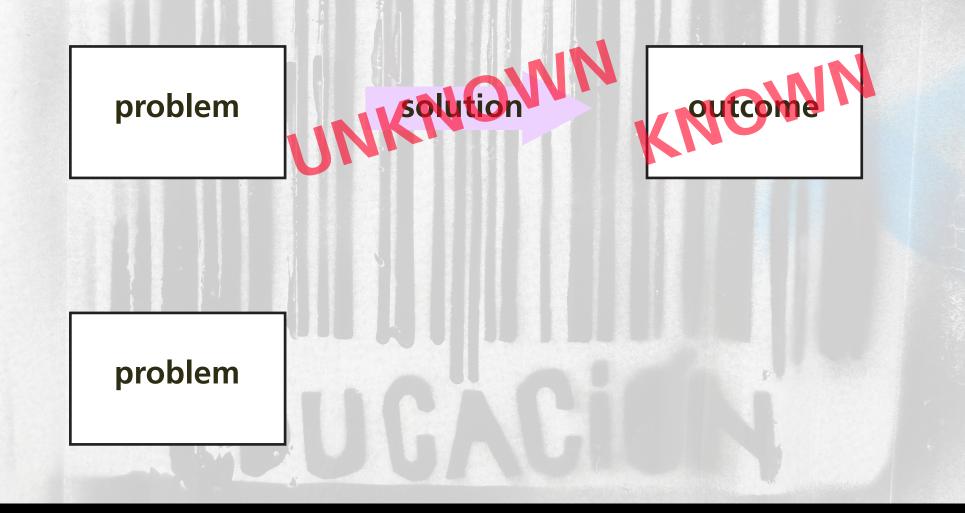












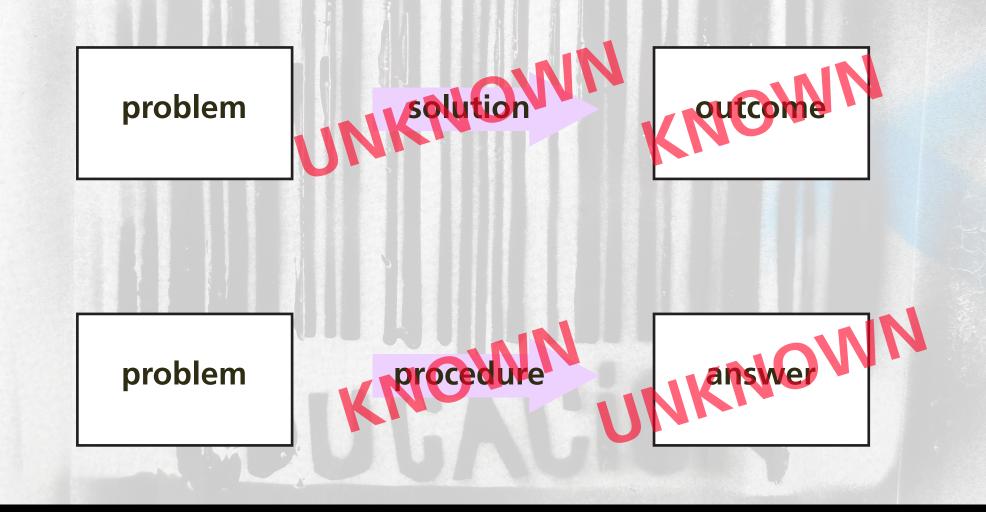






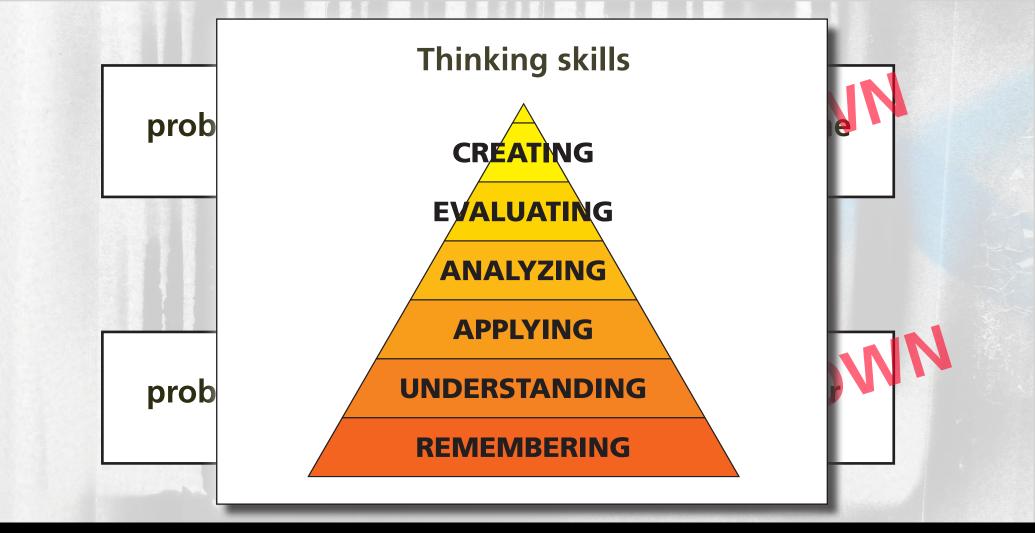
















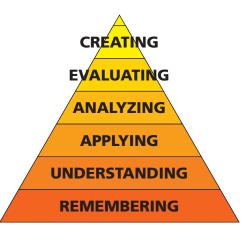
How long do you have to wait before someone frees up a space?

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Requires:

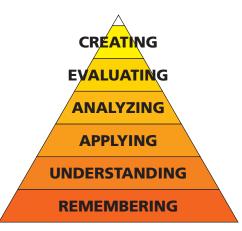
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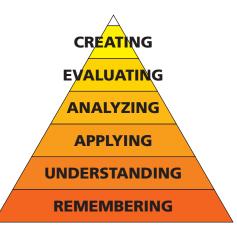
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Requires:



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

Requires:

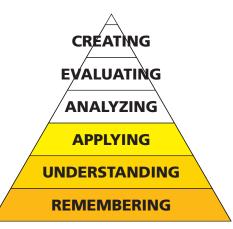


On a Saturday afternoon, you pull into a parking lot with unmetered spaces near a shopping area. You circle around, but there are no empty spots. You decide to wait at one end of the lot, where you can see (and command) about 20 spaces. On average people shop for 2 hours.

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

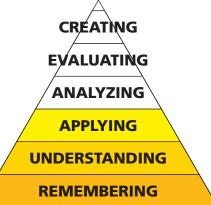
Requires:

Assumptions Developing a model Applying that model



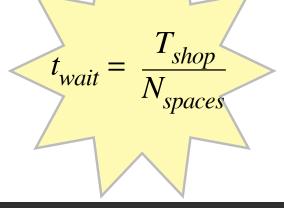
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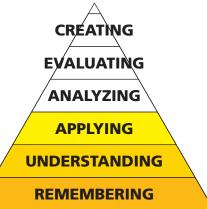
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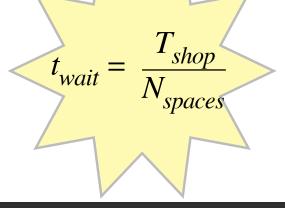
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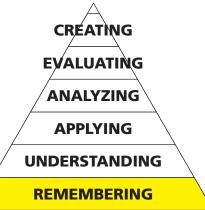


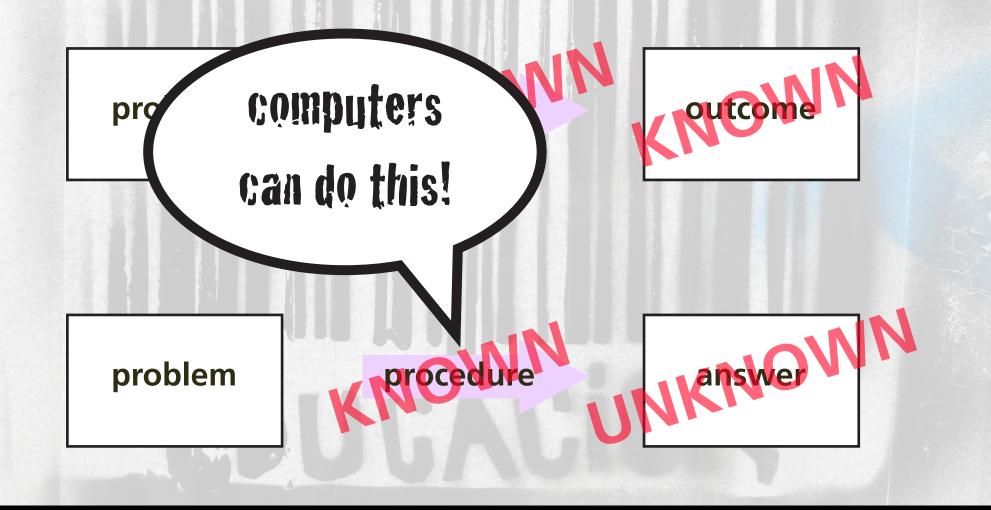


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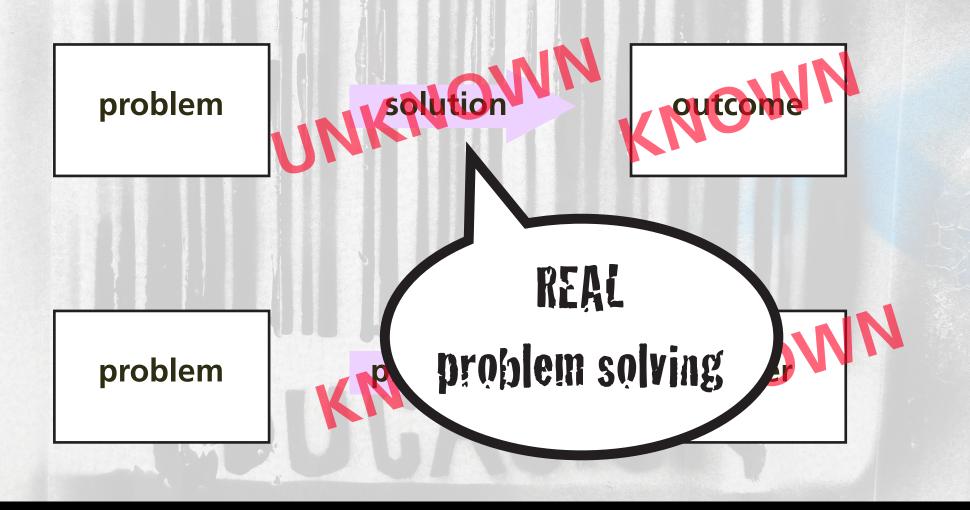














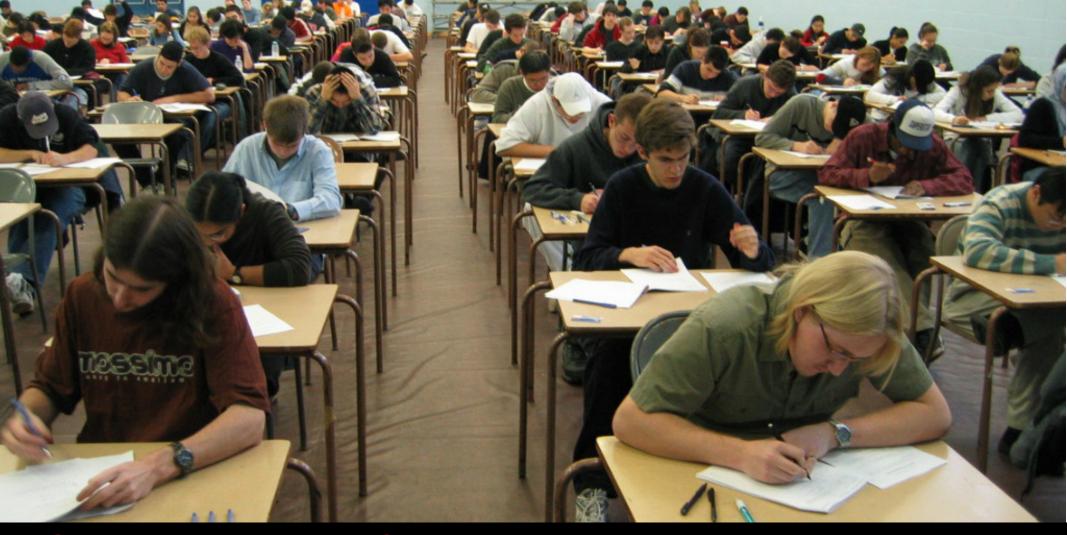




grading incompatible with real problem solving





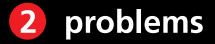


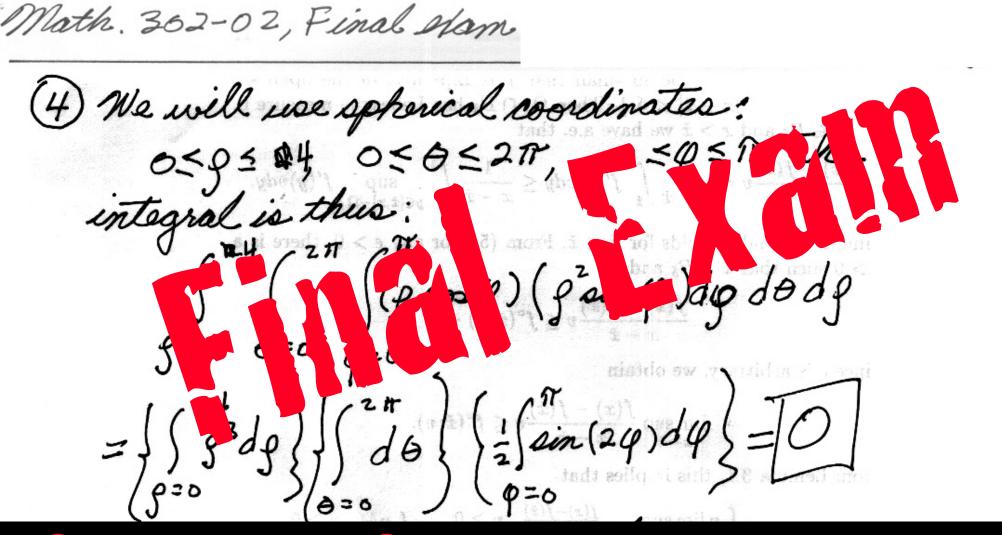




isolation





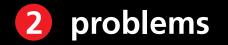






high-stakes examinations promote cramming





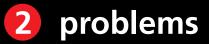
information stored in short-term memory





information stored in short-term memory tral





will remain Conservation of Energy leads to: (boy) matter Conservation of Energy leads to: List the three important concepts that the boy WA Equilibrium (boring!

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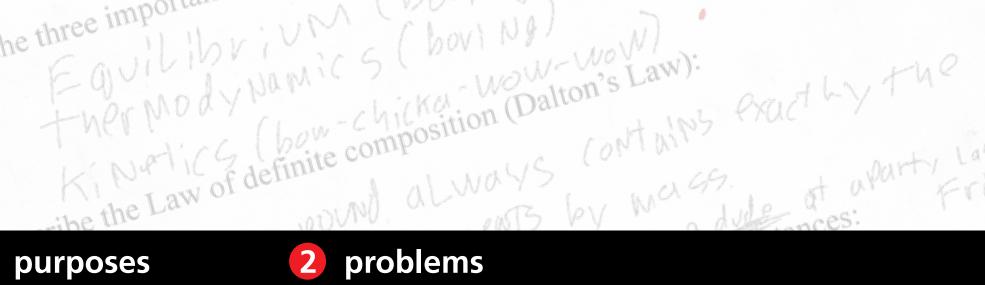
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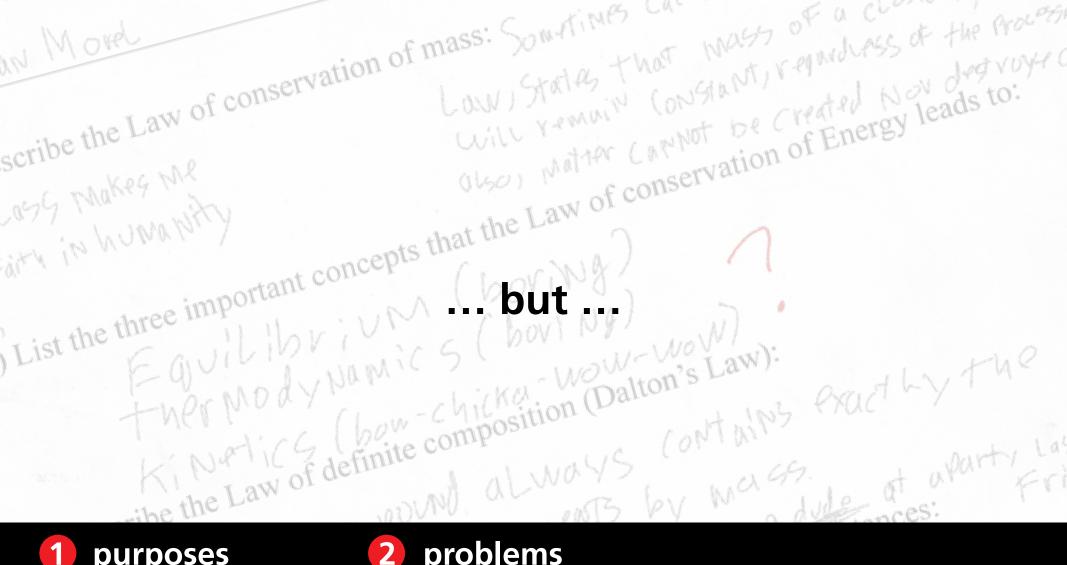
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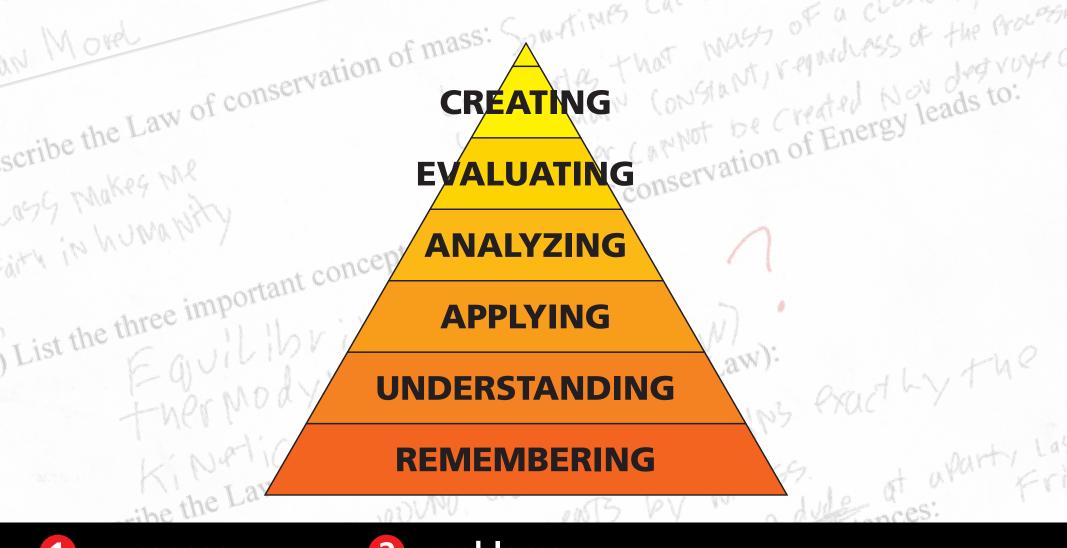


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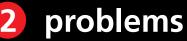












only lowest order thinking skills

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Balton's Law):

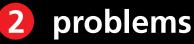
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List the three important concepts managed objectively

REMEMBERING



-thermody



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Will remain (onstant, reparduess of the Process

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mimic real life





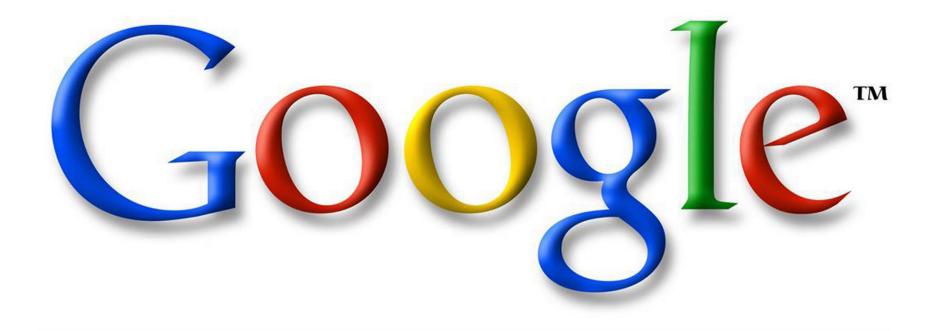


open-book exam





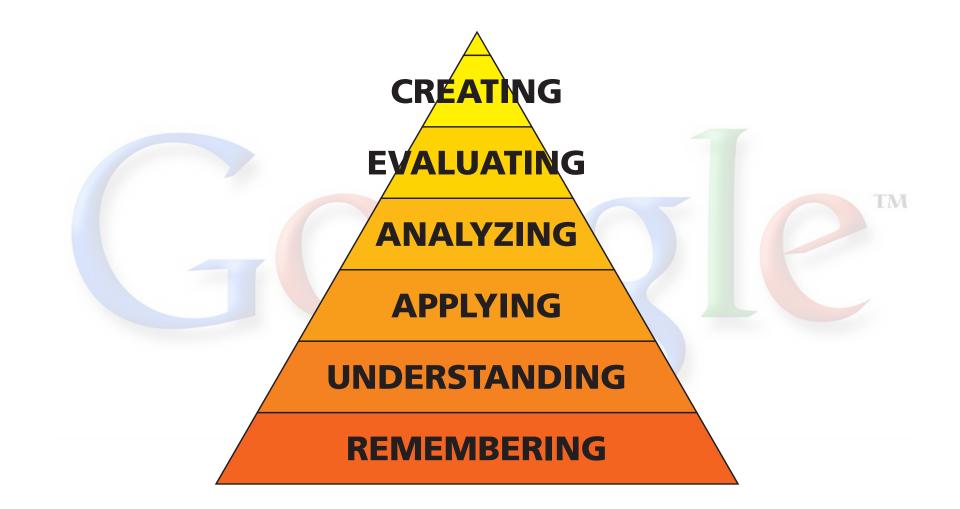










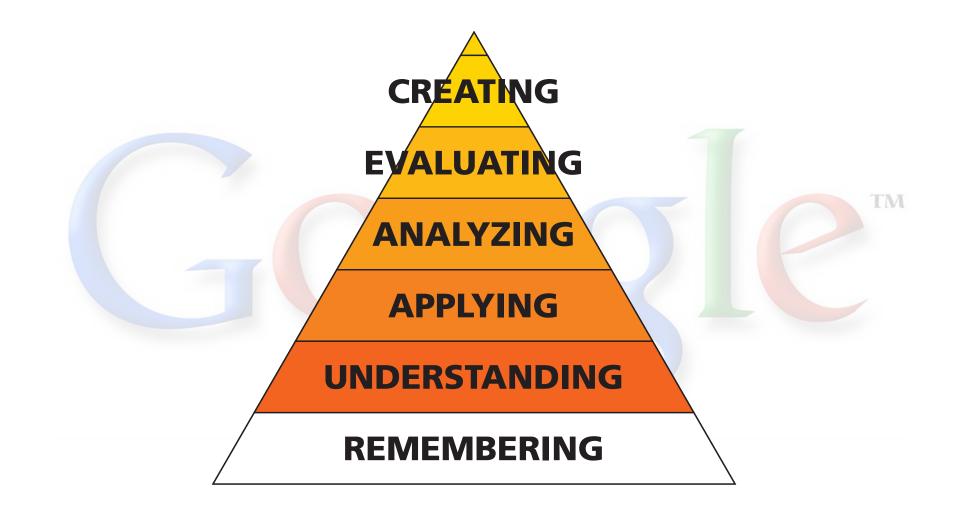








improvements









improvements



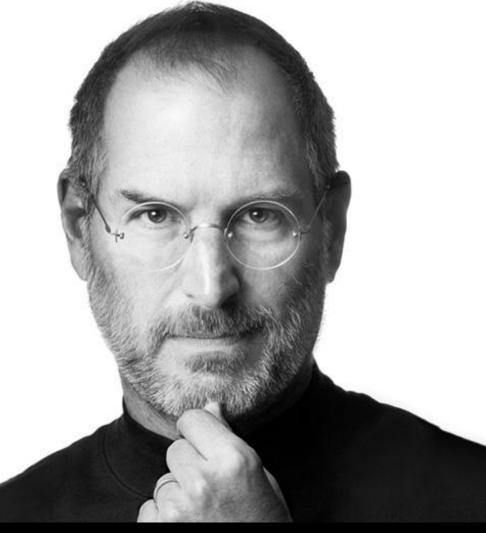
focus on feedback, not ranking







objective ranking: a myth

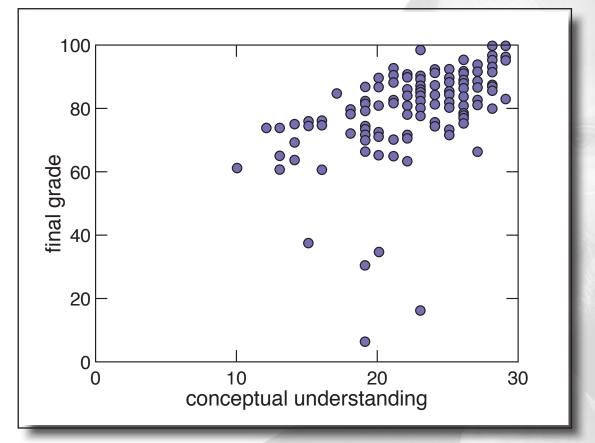








2 metrics, 2 results

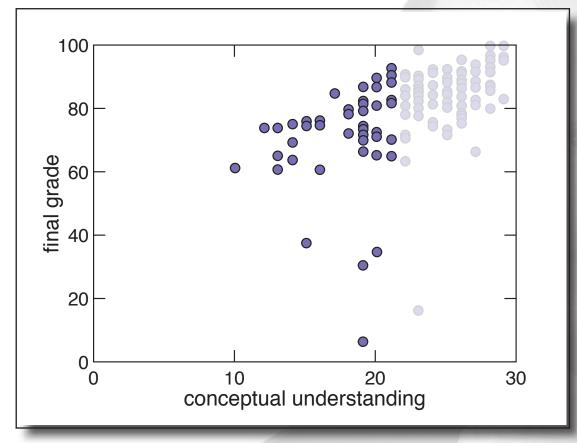








Aristotelian thinkers

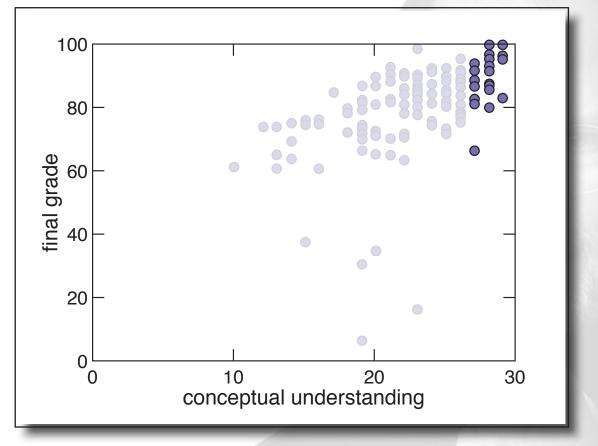








top performers, broad grade distribution

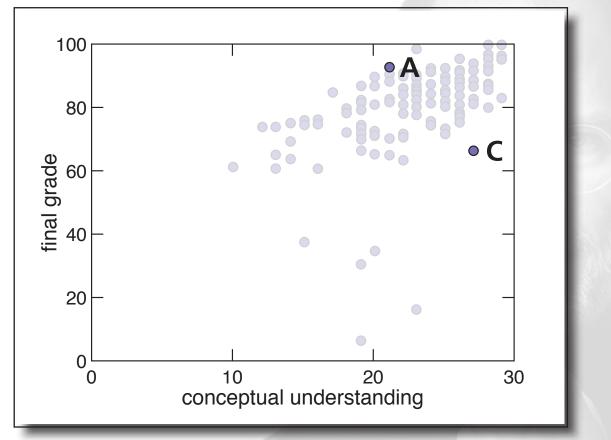








objectivity or injustice?









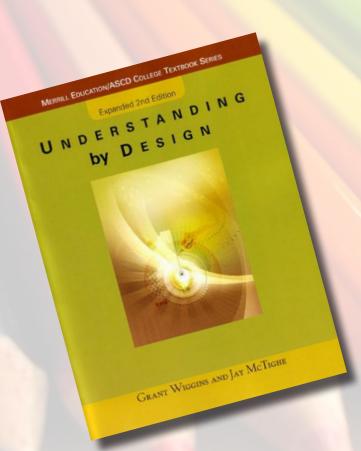


focus on skills, not content









Grant Wiggins and Jay McTighe, Understanding by Design (Prentice Hall, 2001)







improvements

Traditional approach to course planning

course content



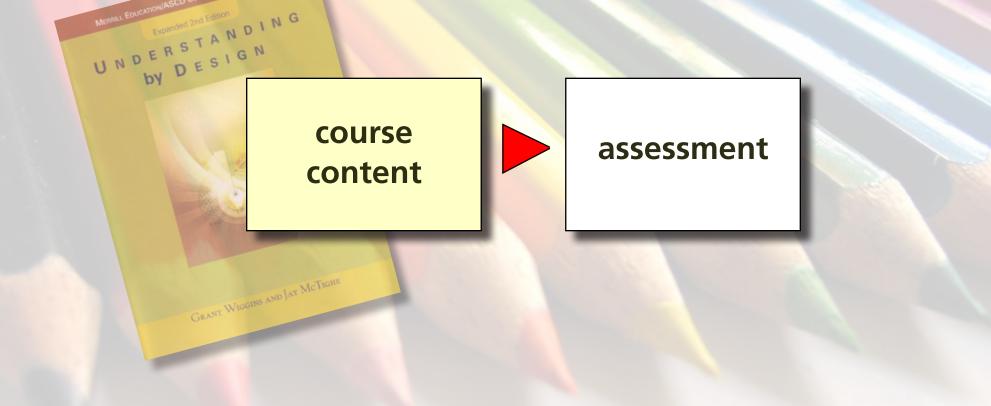
UNDERSTANDING by DESIGN

GRANT WIGGINS AND JAY MCTIGHE

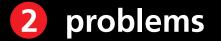




Traditional approach to course planning

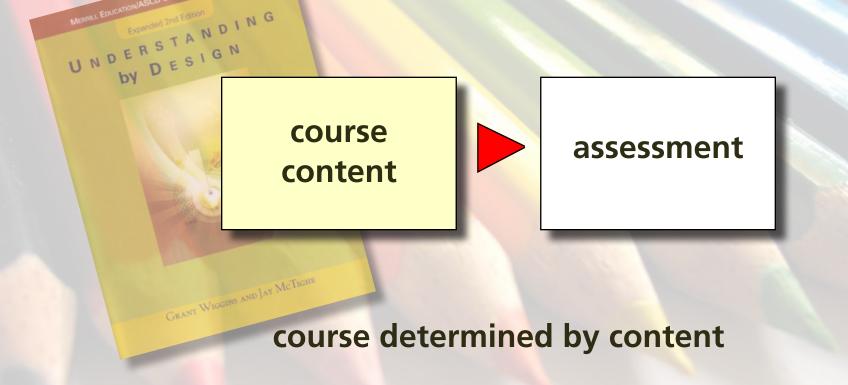








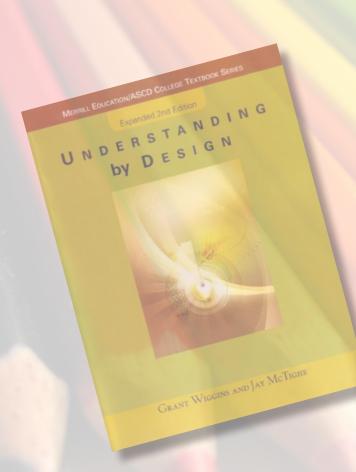
Traditional approach to course planning











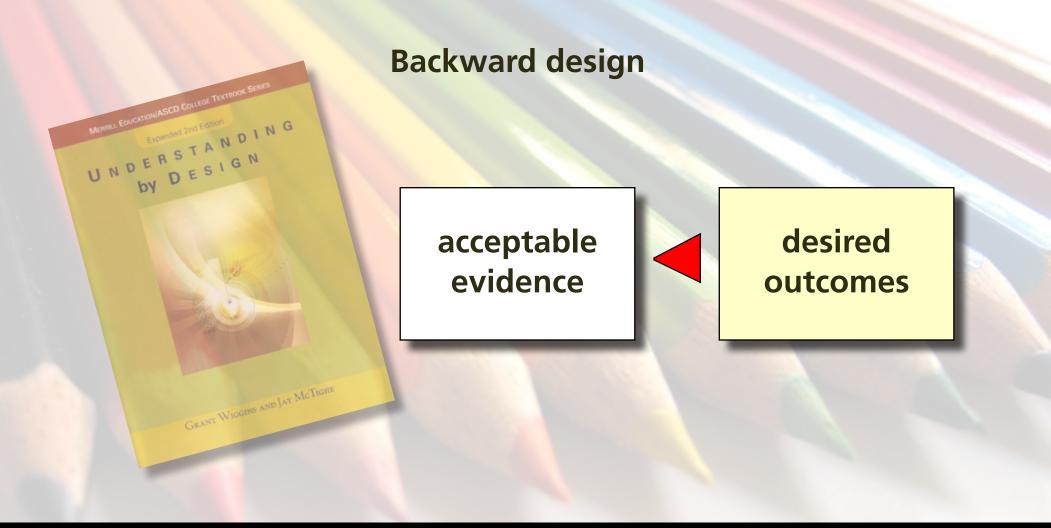
Backward design

desired outcomes

















Backward design











Backward design

instructional approach

acceptable evidence



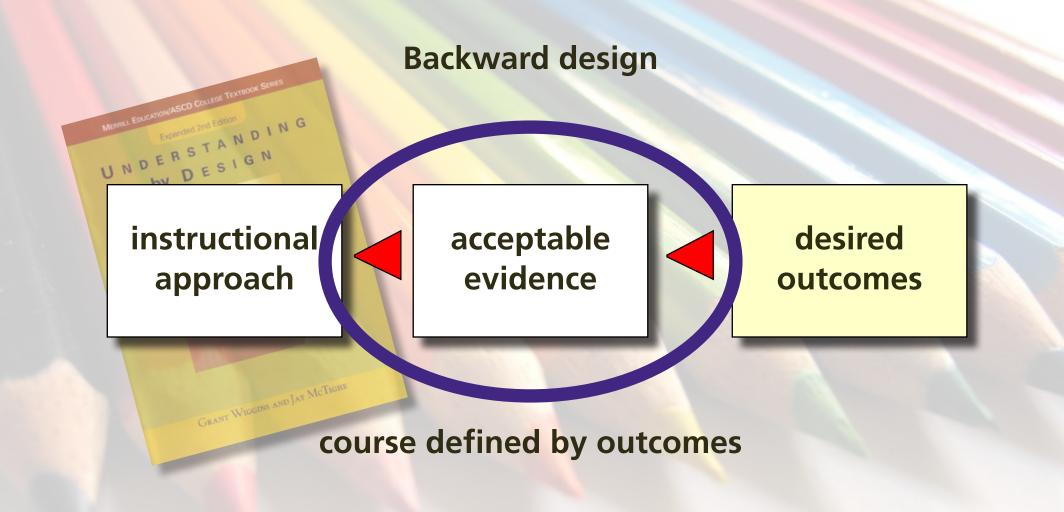
desired outcomes

course defined by outcomes

















resolve coach/judge conflict







improvements

Describe the Law of definite composition (Dalton's Law): A Chamilar (use external evaluators that have the availant frite Same proport in of the TATING'S to involved substances: UNV a lated, I saw My TATING'S to involved substances:

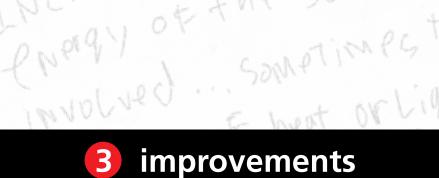


st the three important concerne

Equilibrium (poring)

Thermody Namic S (bovi NA)





E buent or Lin improvements

Describe the Law of definite composition (Dalton's Law): A Chamilal peer and self-assessment start by the Same proport in of TATINTY & Same to involved stastances: UNV a lated, I saw My TATINTY & Simolved Stastances: 5 pts) A chemical reaction does one of two things to involved stastances.

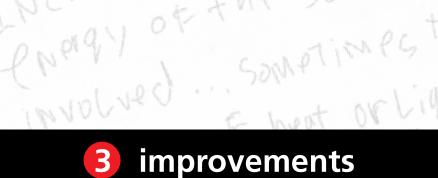


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Describe the Law of definite composition (Dalton's Law): Calibrated Peer Review destances:

st the three important concern

Equilibrium (poring)

thermody Namic S (bovi NA)







improvements



assessment

rethink



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ericmazur.com

