#### **Assessment: The silent killer of learning**



IECHE 2014 Riyadh, Saudi Arabia, 15 April 2014

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@eric\_mazur

IECHE 2014 Riyadh, Saudi Arabia, <u>15 April 2014</u>







# we only guarantee they'll pass the test



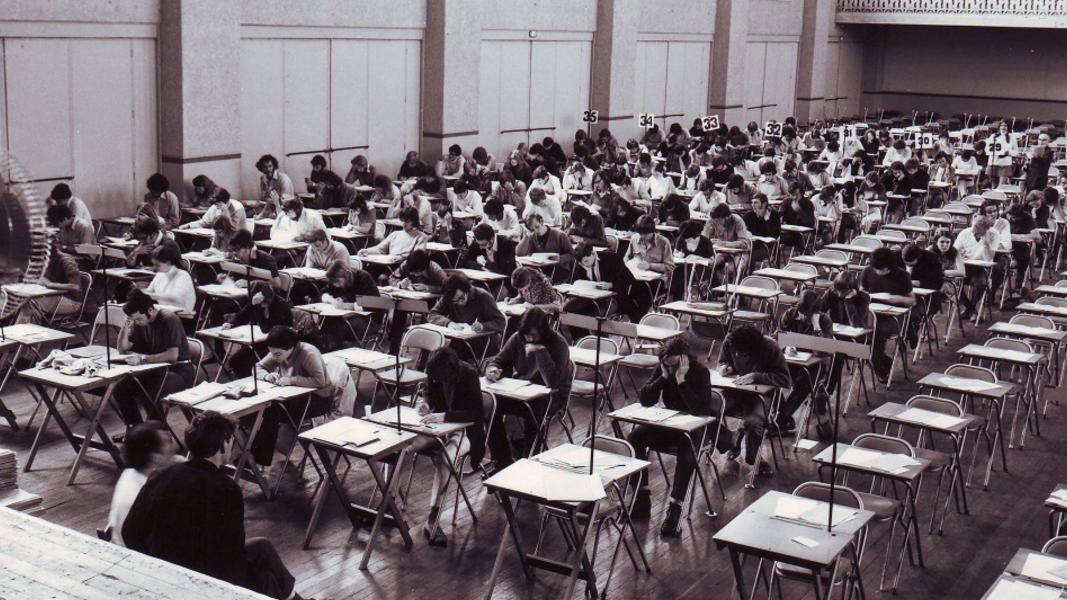
## **5-minute university**





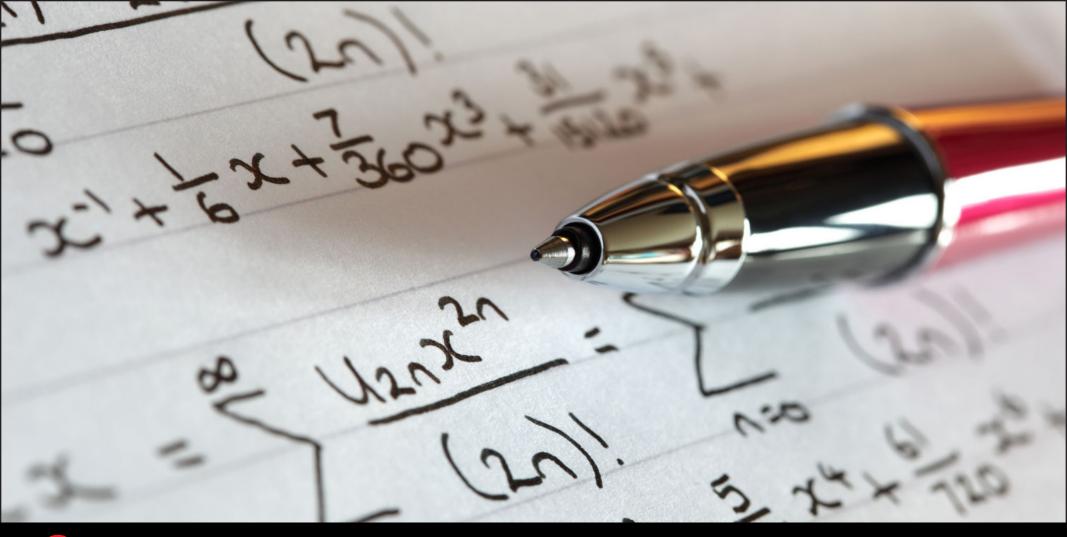




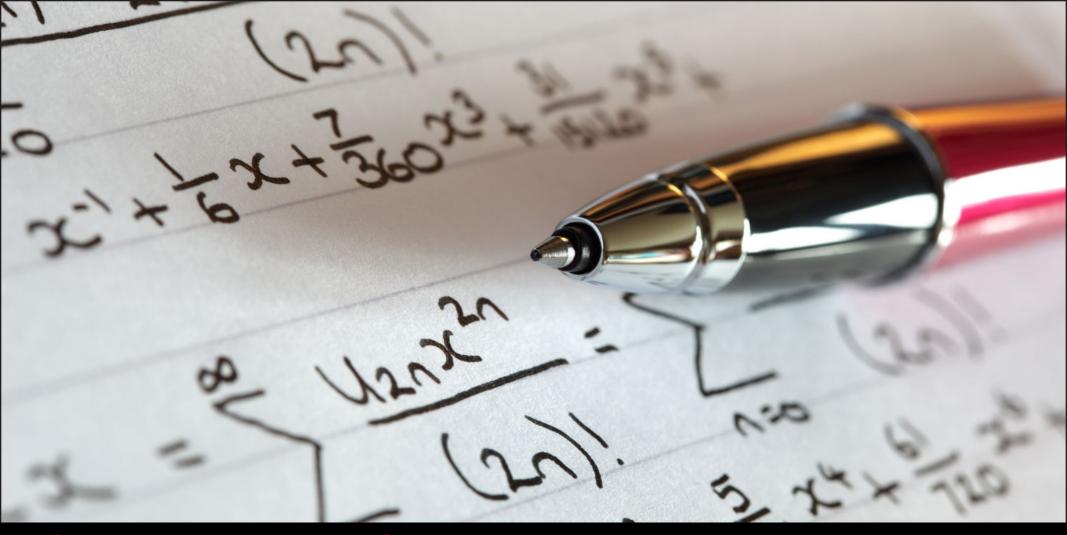


## assessment focussed on ranking and classifying,

### not on developing 21st century skills

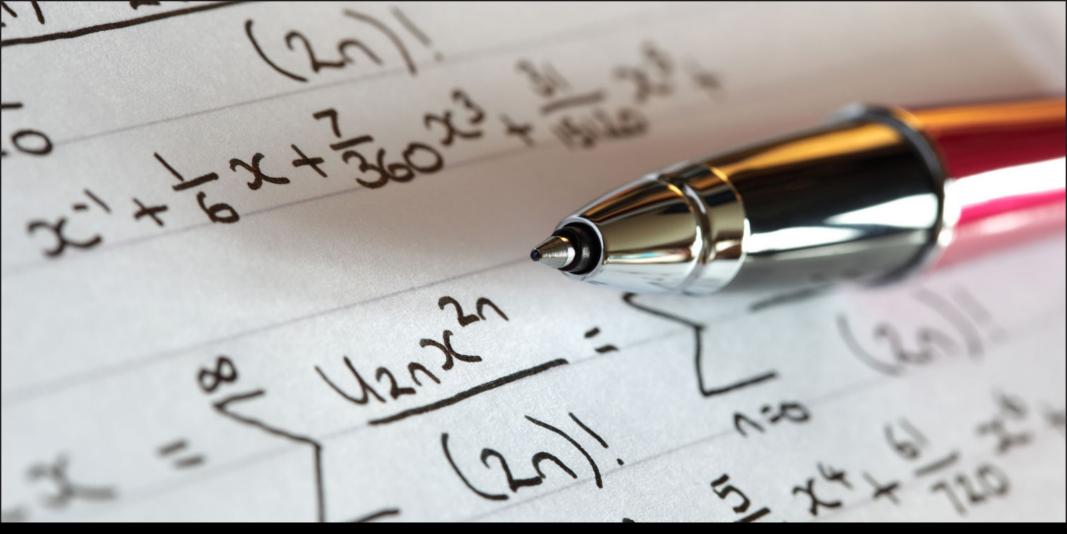




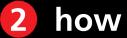














## inauthentic tests

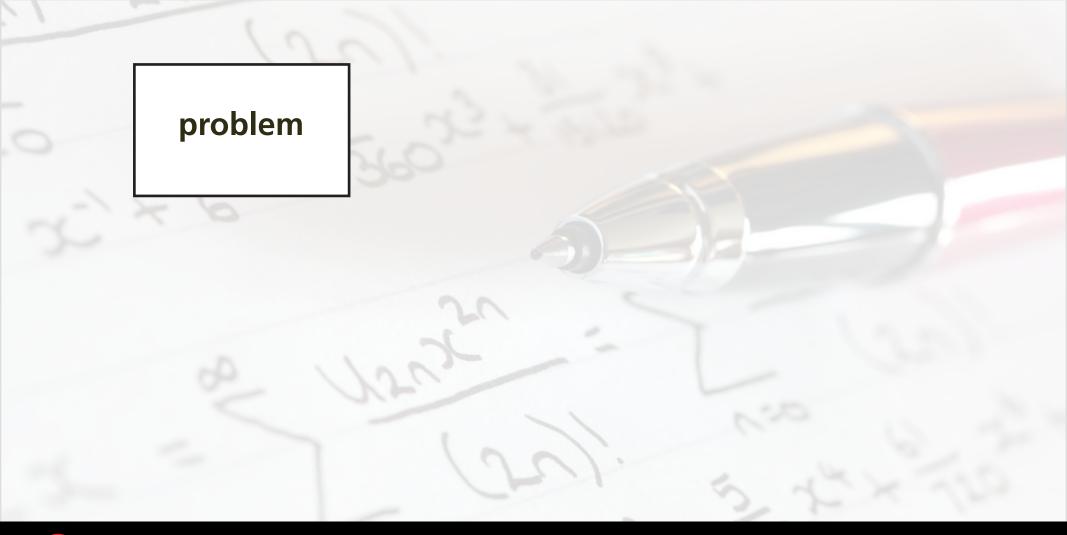


## what is the meaning/definition of ...?

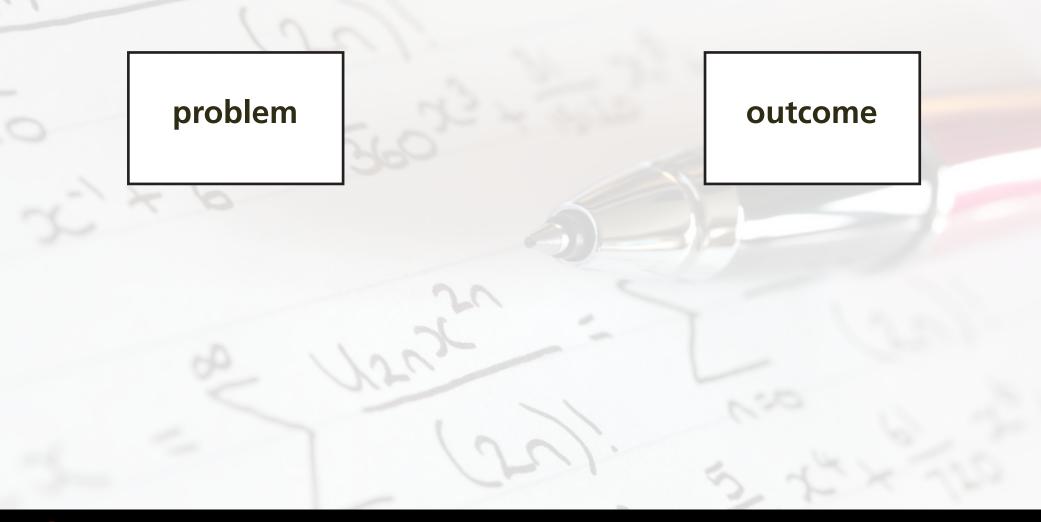


## inauthentic problem solving

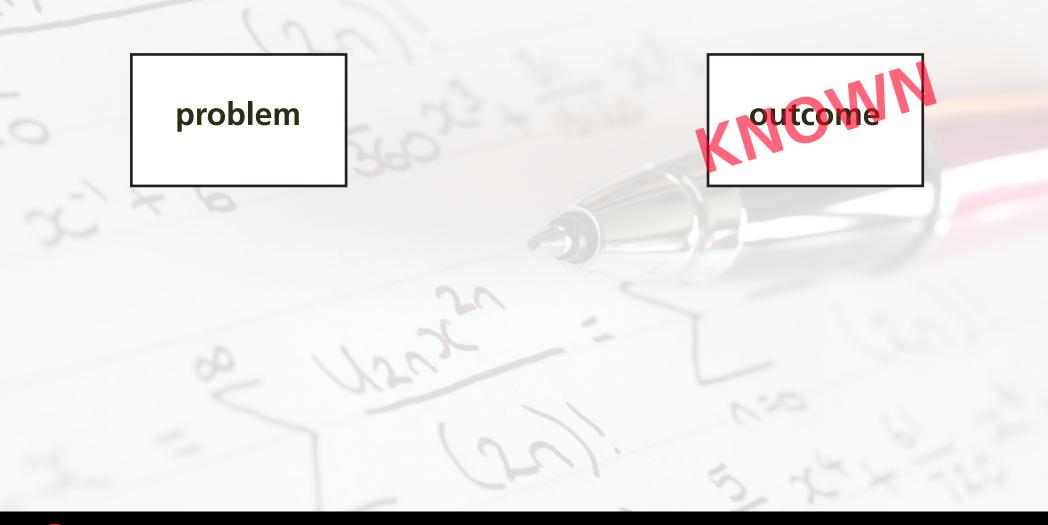




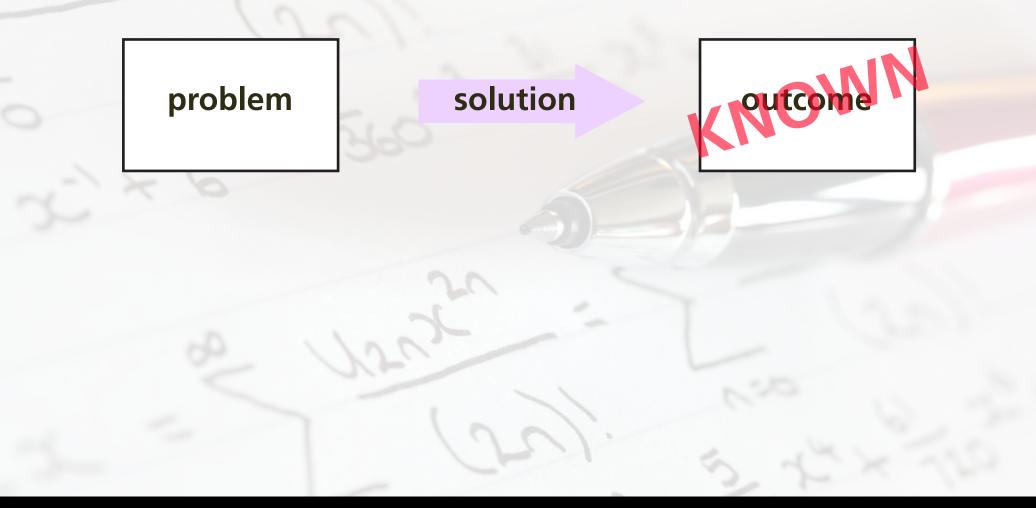




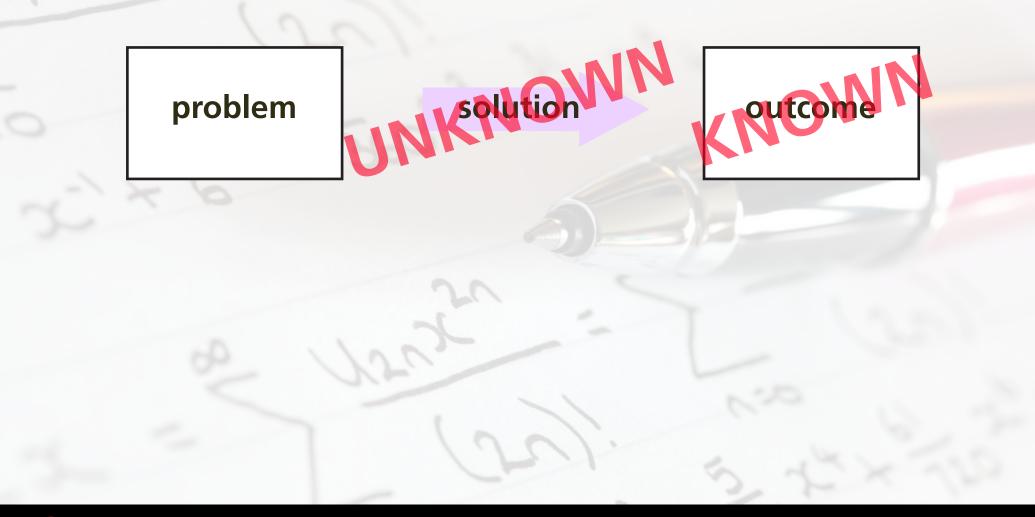




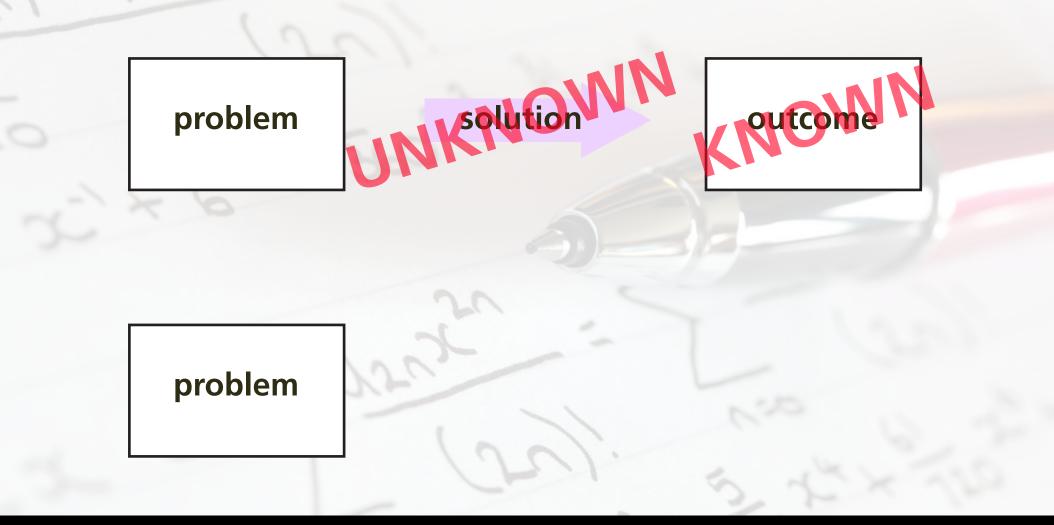




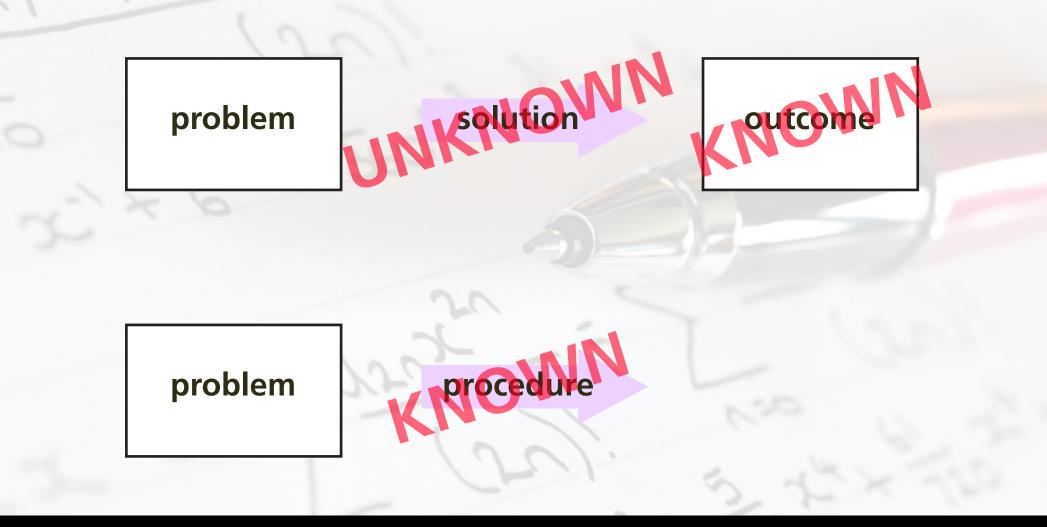




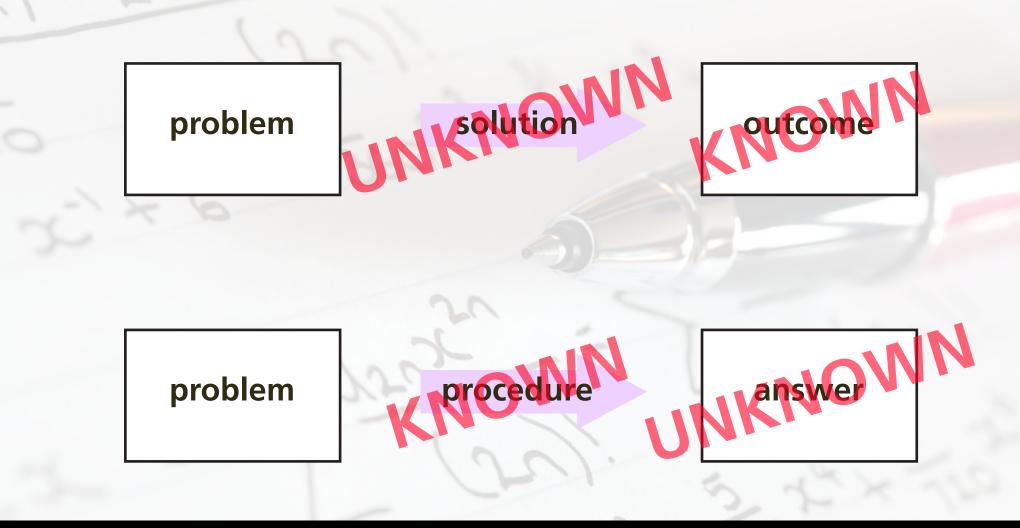




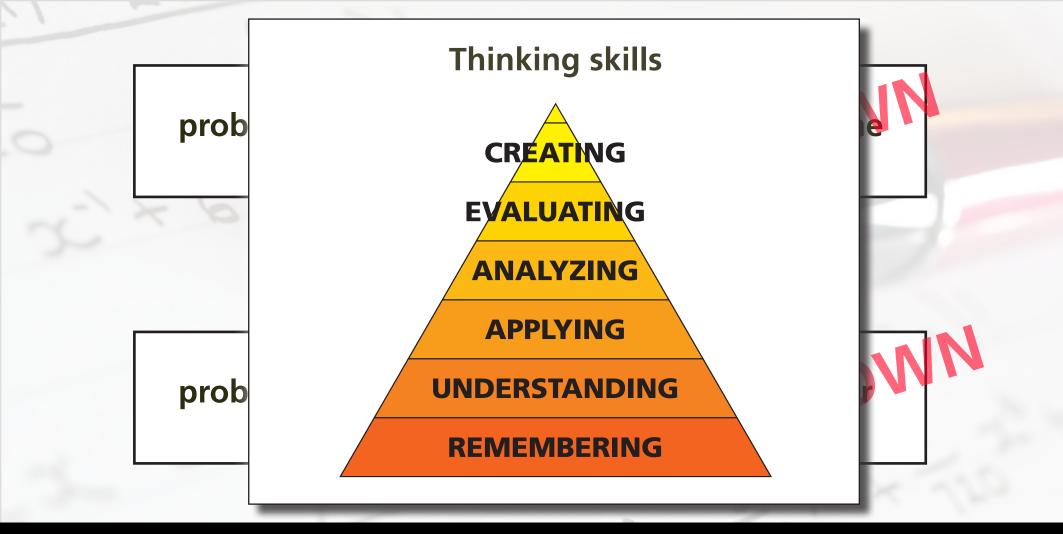














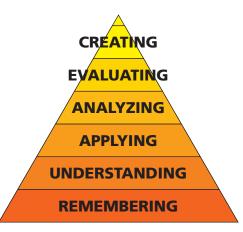
How long do you have to wait before someone frees up a space?

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**Requires:** 

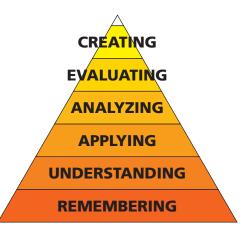
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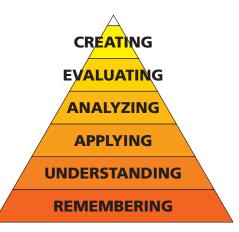
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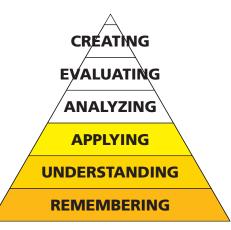
Assuming people leave at regularly-spaced intervals, how long do you have to wait before someone frees up a space?

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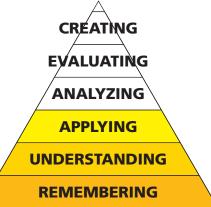
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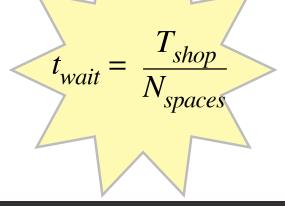
On a Saturday afternoon, you pull into a parking lot with unmetered spaces near a shopping area, where people are known to shop, on average, for 2 hours. You circle around, but there are no empty spots. You decide to wait at one end of the lot, where you can see (and command) about 20 spaces.

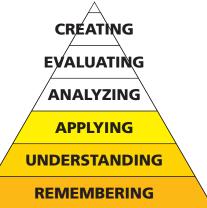
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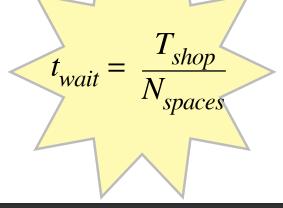
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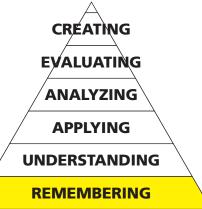


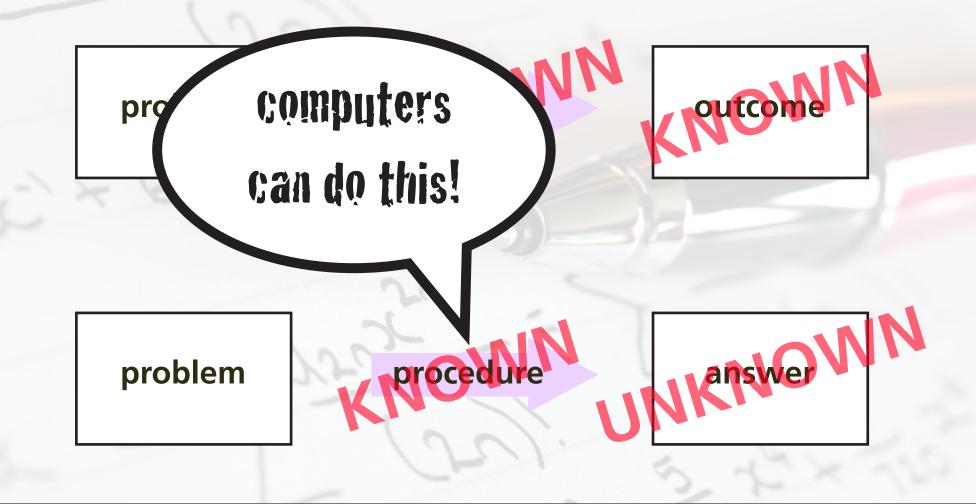


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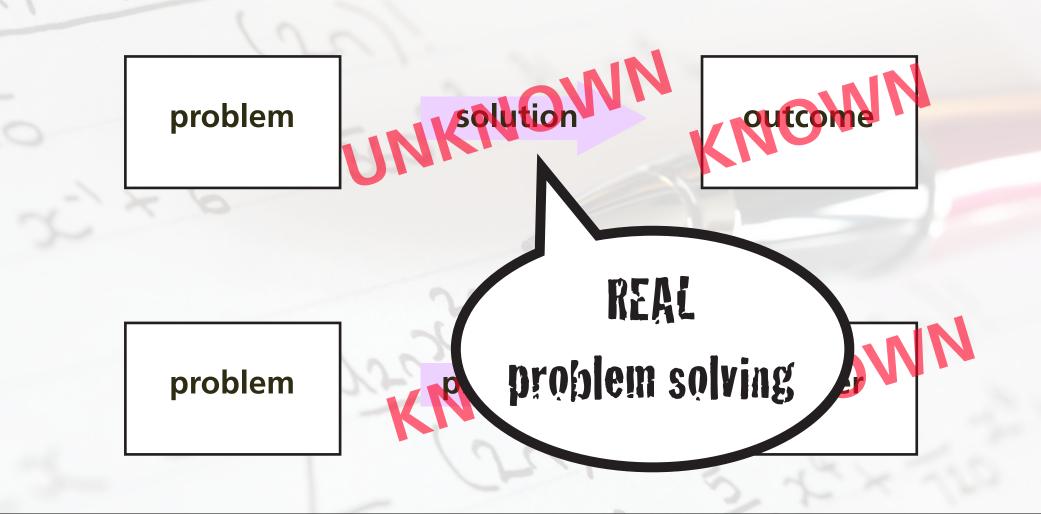




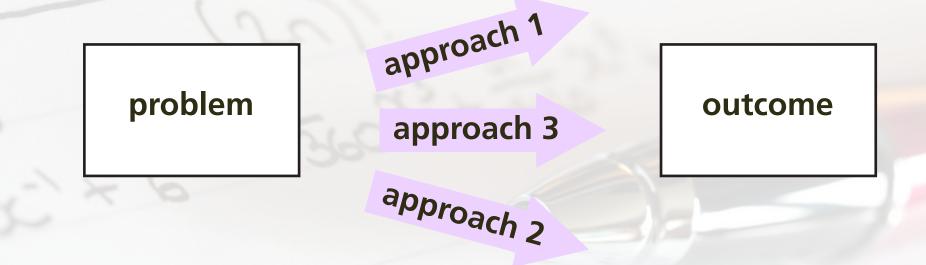












### grading incompatible with real problem solving



## 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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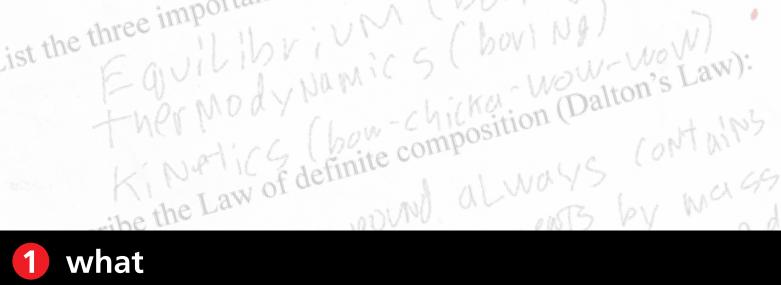
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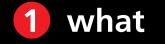
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## Equilibrium (boring! Her Mody Wancos (bow NA) Ki NATICS (bow composition (bge? Law): the the Law of definite composition (bge? Law) wound always contains exactly the



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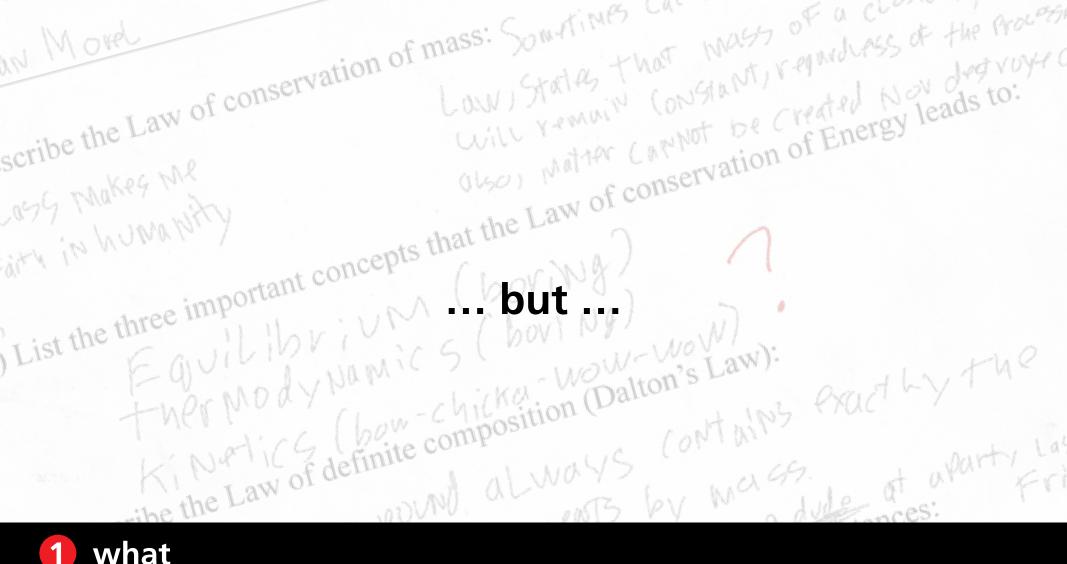
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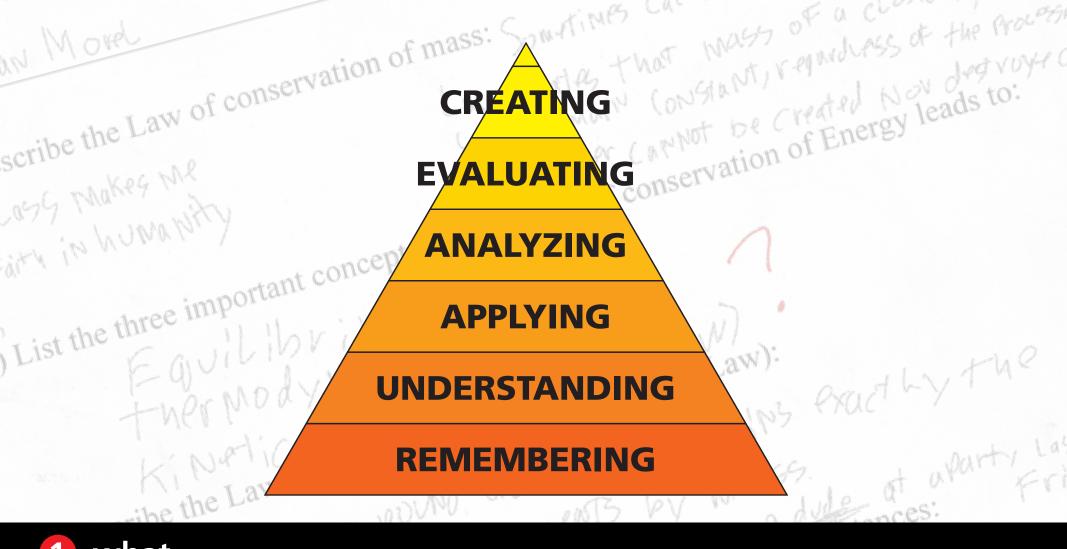
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## List the three important concepts that ( boy Mile) wound always contains a dule at a party Las











# only lowest order thinking skills

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(Dalton's Law):

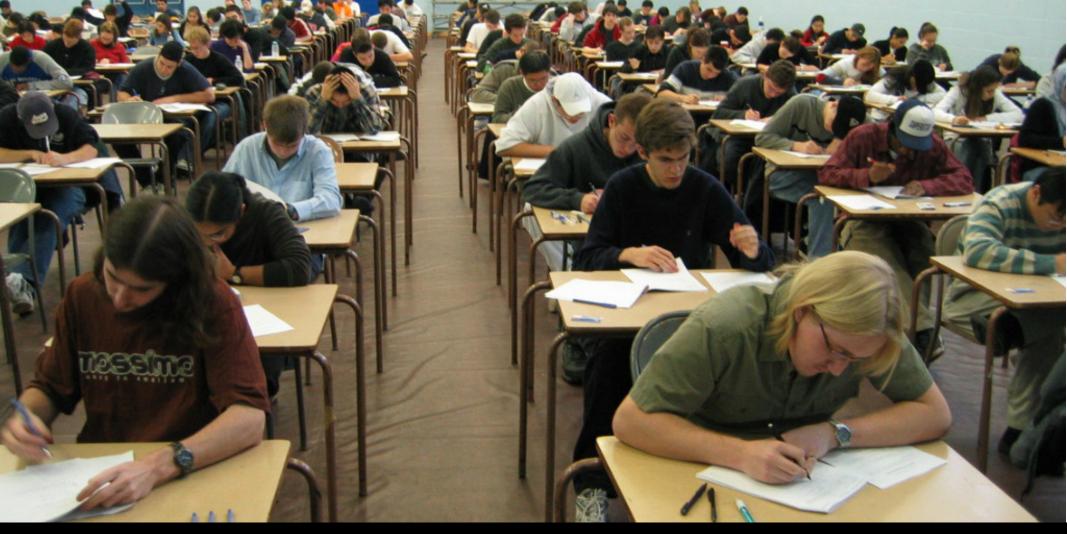
scribe the Law of conservation of mass. When we way

## List the three important concepts managed objectively

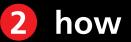
#### REMEMBERING



-thermody



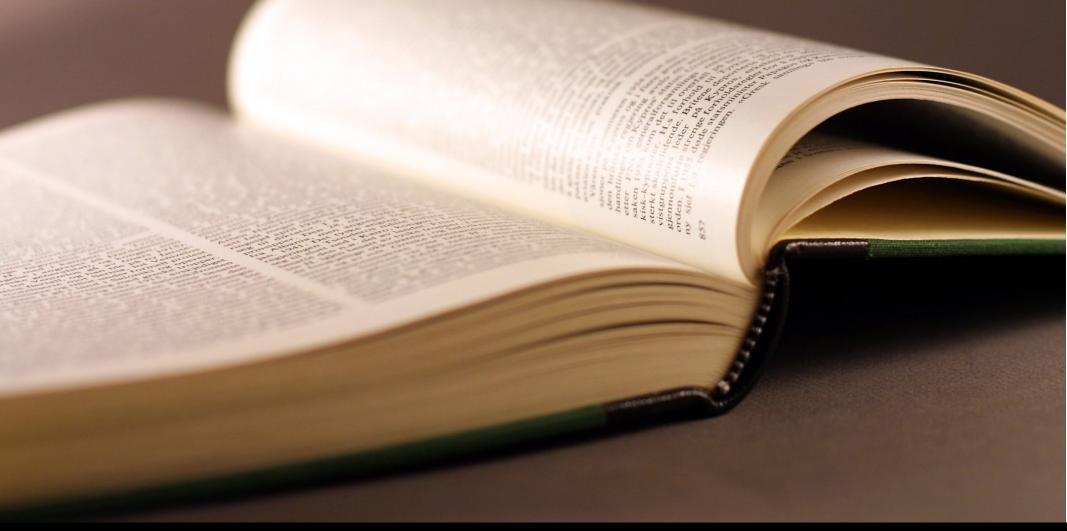




## isolation

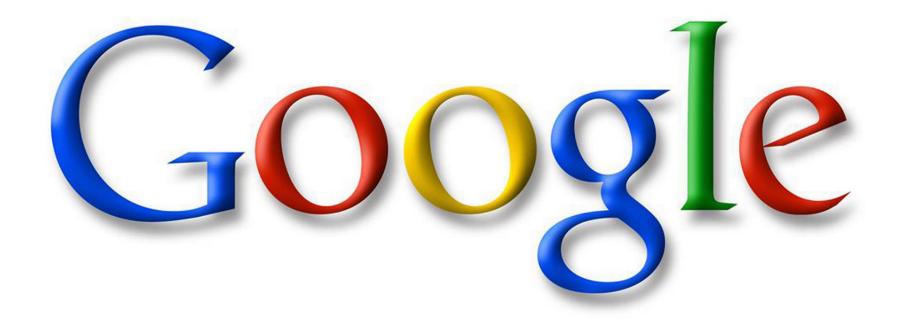






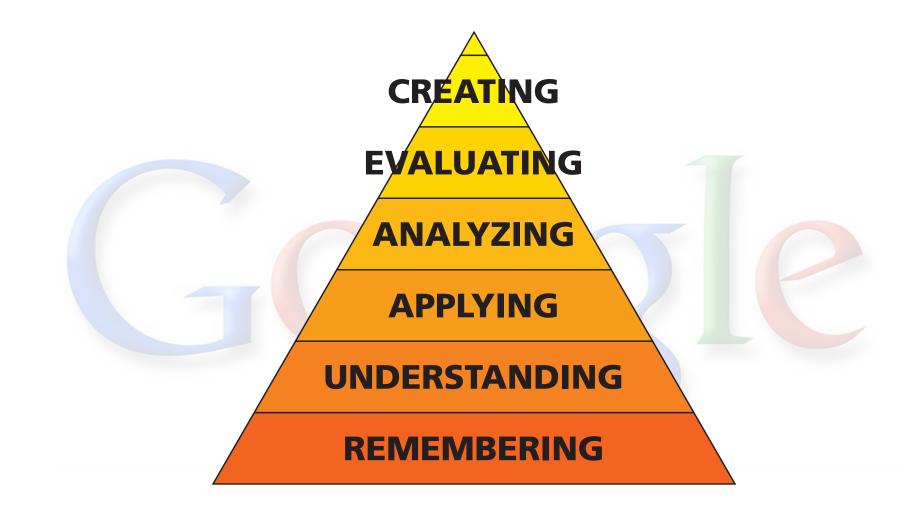






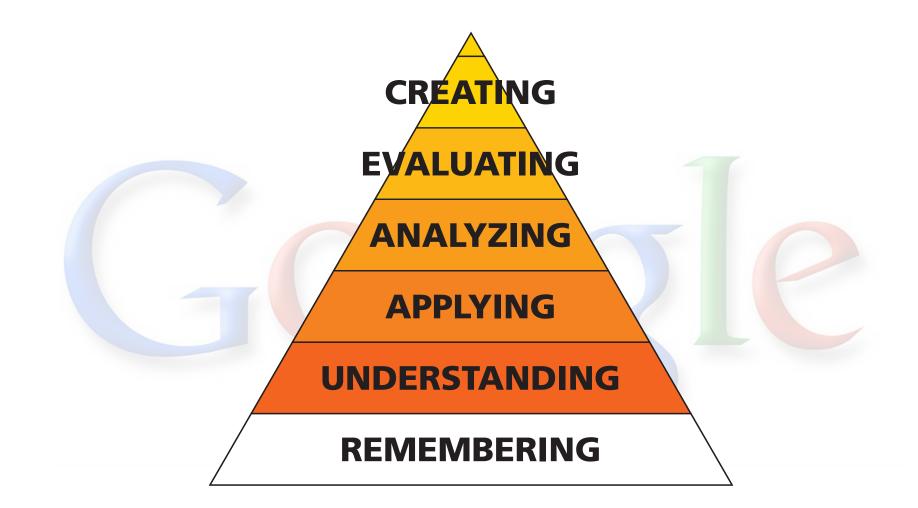












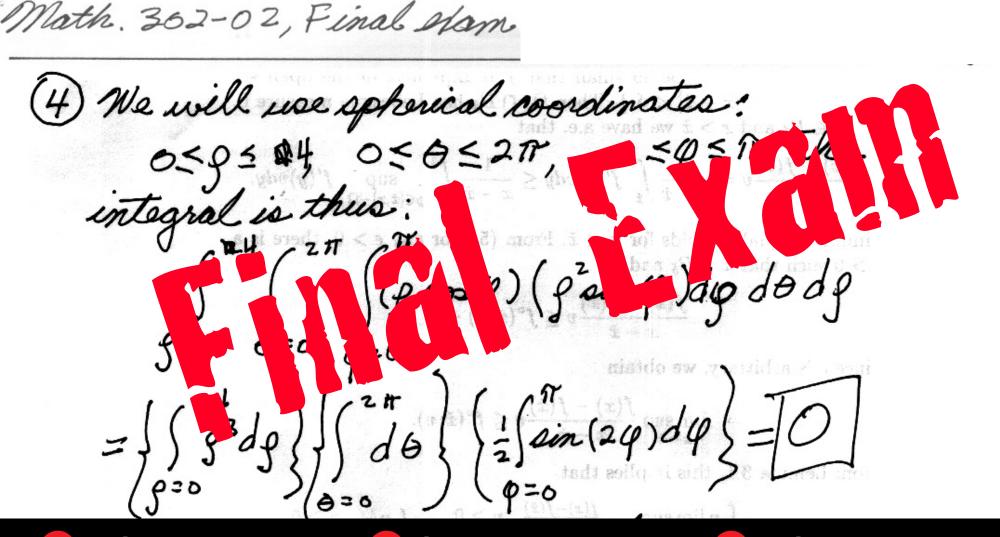


















### high-stakes examinations promote cramming





#### information stored in short-term memory

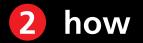






# information stored in short-term memory tral





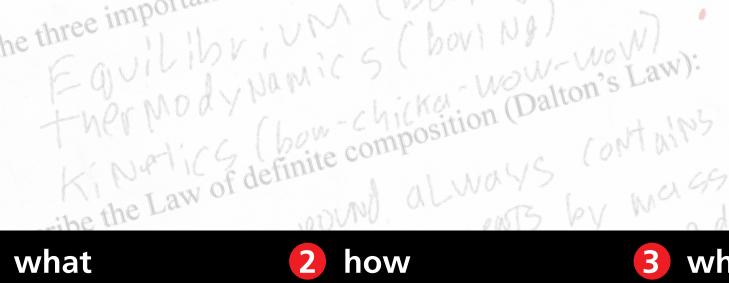


# measure of standing relative to others ist the three important concepts that (boy Na) Equilibrium (boy Na)

Law, Startes that wass or a com

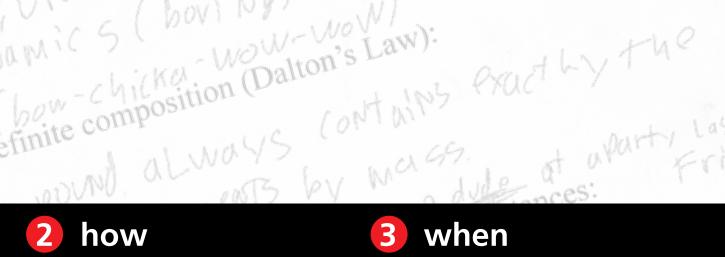
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scribe the Law of conservation of mass. Source of

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## measure of standing relative to others grades:

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Will remain Constant, reparduess of the Process

### feedback: reflection on what has been learnt Ki Nightic G (bow-chicker-Wow-Wow); whethe Law of definite composition (Dalton's Law); thermody Namics (bovi. List the t wound always contains exactly the





scribe the Law of conservation of mass. Sometimes Car





## assessment

rethink



#### mazur.harvard.edu

