Alan November on “Empowering Teachers, Engaging Students”
TEACHERS ARE MORE IMPORTANT THAN EVER.
Long Term Teacher Trends

• Decrease delivering subject knowledge
  • (Talk Less)

• Increase of diagnostic skill
  • (Listen More)

• Increase in classrooms connected to the world
3 Teaching Roles in a Connected World

- Chief Learner
- Global Collaborator/Publisher
- Web Lit Director
New Roles for Developing Empowered Learners

- Tutorial Designers
- Official Scribes
- Collaboration Coordinators
- Researchers
- Contributors to Society
- Curriculum Reviewers
While the problem of humanization has always, from an axiological point of view, been humankind's central problem, it now takes on the character of an inescapable concern. (1) Concern for humanization leads at once to the recognition of dehumanization, not only as an ontological possibility but as an historical reality. And as an individual perceives the extent of
Curse of Knowledge – Seriously?

• High School Student: “My teachers know so much about the subject that they do not always know how to explain to a first time learner. I just want to turn to a friend to ask for help.”

• Harvard Prof. Dr. Eric Mazur “When students work in teams to review the assessment they explain things to one another in their own words.”
Prime Factorization

1. \[32 = 2^5\]
\[2 \times 16 = 2^5\]
\[8 \times 4 = 2^5\]
\[2 \times 2 \times 2 \times 2 \times 2\]

32
\[8 \times 4\]
\[2 \times 2 \times 2 \times 2 \times 2\]
Recent [?]

07/08 @ 08:15 : Belgrave, AU
07/08 @ 08:15 : Dubai, AE
07/08 @ 06:16 : Brighton, GB
07/08 @ 06:15 : Dubai, AE
07/08 @ 05:11 : Amreli, IN
07/08 @ 04:48 : Loosdrecht, NL
07/08 @ 04:45 : Brisbane, AU
07/08 @ 04:45 : Rajkot, IN
07/08 @ 04:44 : Rajkot, IN
07/08 @ 03:30 : Santa Monica, CA
07/08 @ 03:24 : Mumbai, IN
07/08 @ 03:11 : Caringbah, AU
Quote from 12 year old student

•“I have to create more. I just found out the world needs me.”
Global Connections

Mr. Greg's Class @MrGregsClass · Jan 21
Maker time adventures: "I made a video camera out of boxes by myself!"
Clean Problems vs. Messy Problems

- Messy Problems can lead to more frustration. Frustration can lead to more creativity. (Students work harder)
Student “Problem Designer”

- Change from “solve this” to “involve this”

The height of the soda in this right cylindrical cup is 5” and Mr. Caviness wants to add 3 ice cubes to the cup. Can he do so without the soda overflowing?
Design of the Search?

Google search query:
`site:is endangered plant species`

Result:
- **Species at Risk Act**
  - Action Plan Series
- **Green-scaled Willow**
“Google is broken today!”

• Do a search for images for American History

site:gov, site:edu

US History
What is the **purpose** of Google?

• Are cats better than dogs? – Unequivocal
• Are dogs better than cats? – Unequivocal

• **Both can not be** UNEQUIVOCAL
Critical Thinkers

BBC – “Grew”
Wikipedia – “Implanted”
Search Design

“Iranian Hostage Crisis”
= student response

“Conquest of American Spy Den”
= teacher added value
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Contact Alan

• www.novemberlearning.com
• Twitter: @globalearner
• alan@novemberlearning.com