"What is worth learning is worth learning well." ~Alfred North Whitehead

AGENDA

- 1. Why critical thinking?
- 2. What is critical thinking?
- 3. How do you ask great questions online, blended and face-face?
- 4. What are some face-face critical thinking strategies?
- 5. Reflection what did we learn?



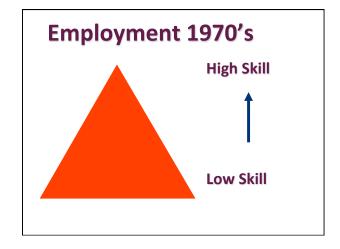


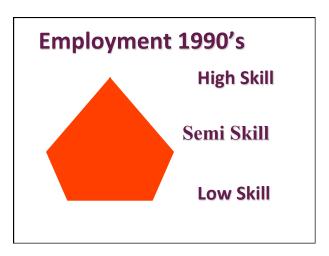


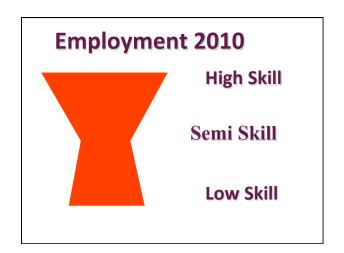


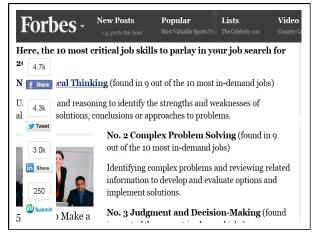


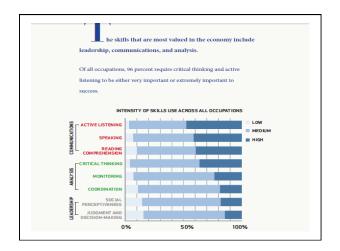








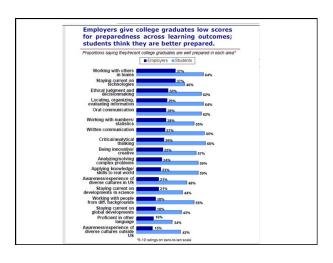


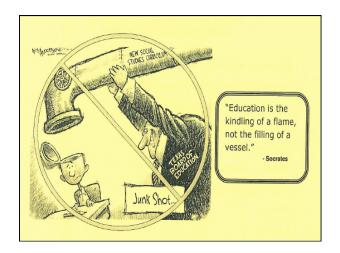


THIS IS WHY... * The top 10 jobs in 2015 will be jobs that did not even exist 5 years ago. * Today's students will have an average of 10-14 jobs by age 38. * There are 31 billion Google queries each month. * In a week of reading The New York Times, you can learn more than a person in the eighteenth century might have learned in a lifetime. *As Keeling (2004) articulated in Learning Reconsidered: A Campus-Wide Focus on the Student Experience, "...knowledge is no longer a scarce – or stable – commodity. (It) is changing so rapidly that specific information may become obsolete before a student graduates and has the opportunity to apply it" (p. 4).

It Takes More than
a Major to Succeed

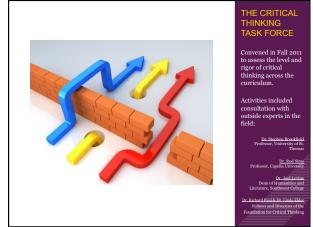
93% of employers agree
that candidates' demonstrated
capacity to think critically,
communicate clearly, and
solve complex problems
is more important than
their undergraduate major.













CRITICAL THINKING

The essence of critical thinking is evaluation ... the process by which we test claims and arguments and determine which have merit and which do not ... critical thinking is a search for answers, a quest.

-Dr. Rod Sims



ANOTHER PERSPECTIVE

Critical thinking is the art of analyzing and evaluating thinking with a view to improving it.

Paul & Elder, 2009



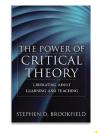
BROOKFIELD'S THEORY

Identifying and challenging assumptions.

Challenging the importance of context.

Trying to imagine and explore alternatives.

Reflective Skepticism.











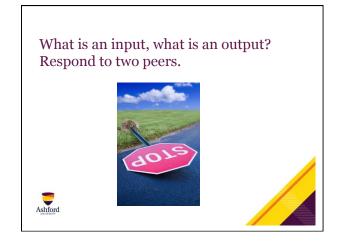


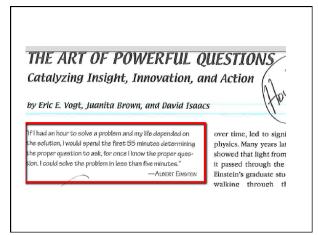












Crafting Discussion Questions

Questions that could be asked:

- Knowledge
- Comprehension
- Application
- Analysis
- · Synthesis
- Evaluation

(Bloom's Taxonomy):

http://faculty.washington.edu/krumme/guides/bloom.html http://www.ihr.org/jhr/v17/v17n6p19 reparations.html

Discussion Questions

Take a look

A short online article from the Institute for Historical Review No End in Sight: Germany Has Paid Out More Than \$61.8 Billion in Third Reich Reparations

http://www.ihr.org/jhr/v17/v17n6p19 reparations.html

Crafting Discussion Questions

- Who or what is the JCC?
- In the 1990's, how much did the JCC pay out to individual claimants?

What do you think might happen in the discussion thread when you ask this type of question?

Crafting Discussion Questions

Analysis: Delve deeper into the subject

The article states that "most of those who were alive during the Second World War are now dead"—that is, the perpetrators of war crimes are themselves long gone from Germany—and that further, the process of reparation may be "bottomless."

Should Germany be required to make good on damages for the past, and should there be a limit to the reparations? Use what you have learned from this unit to support your position. Respond to two of your peers postings and describe how their opinion aligns with yours. Is there any evidence from the article that they could consider to further support their position? What are possible some made to contradict their reasoning?"

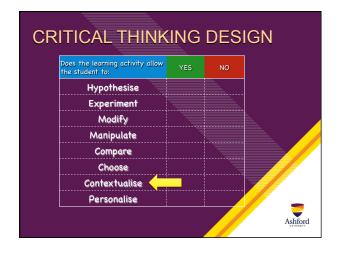
Crafting Discussion Questions

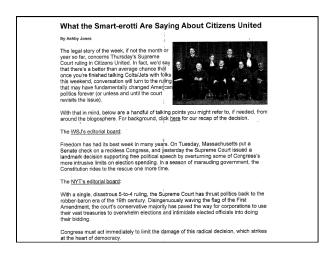
Evaluation:

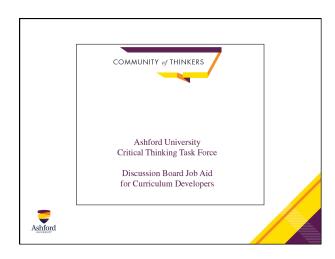
What implications does Germany's reparation requirement have for this issue of Reparation to African Americans?

Are the fundamental violations of human rights the same? What issues are different?

Again, support your opinion with what we have learned in this unit. Read and respond to the posts of two other students.







RECIPE FOR A GREAT DISCUSSION

- -Emotional appeal
- -Set the scene
- -Ask a great question
- -Write a question that goes somewhere
- -Variety is key



DEWEY SAID, "...WHEN IT BECOMES CAST IN A MOLD AND RUNS IN A ROUTINE WAY DOES IT LOSE ITS EDUCATIVE POWER."

There are many ways to construct an engaging and varied line of questioning. Here are a few you might consider:

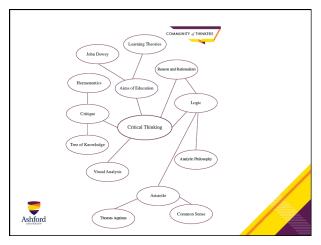
- A. Quotes/Image Analysis
- B. Multimedia
- C. Debate
- D. Case Studies / Scenarios
- E. Quotes
- F. Concept Maps









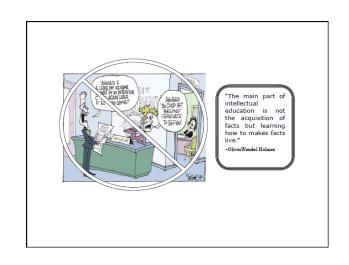


DEBATE

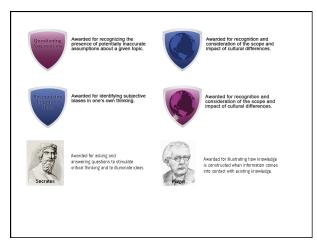
A few years at a top-tier management consulting firm is often more valuable than an MBA from an elite institution.

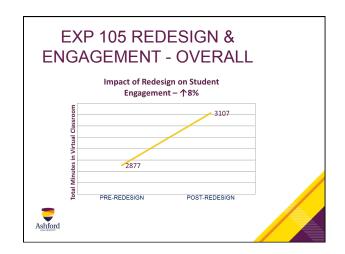
Point of view A: Agree/why? Point of view B: Disagree/why?

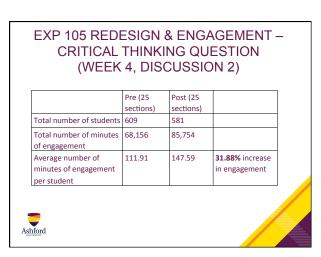


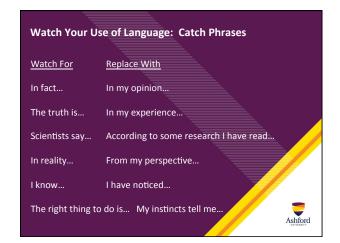






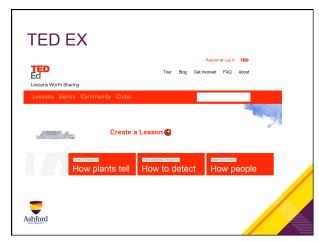














Problem – How Do You Get Students To Be Open To Multiple Viewpoints?

THREE TECHNIQUES

- Circle of Voices small groups (optimally 4-6 in size)
- Chalk Talk adaptable to any size depending on space: from 5 to 50 to 100
- Circular Response larger groups (optimally 10-12 in size)

An Example: Circular Response

- Groups of 8-12
- Go round the circle: each person has a turn to talk up to 1 min. - NO INTERRUPTIONS
- What you say must respond to the previous speaker's comments (can be a disagreement or express confusion)
- Once all have spoken move into open conversation with no ground rules

 Read the following quote and paraphrase it. In other words, say the EXACT same thing in your own words.

"Reading furnishes the mind only with materials of knowledge; it is thinking that makes what we read ours."

~John Locke

Read the following quote and **PARAPHRASE** it. In other words, say the EXACT same thing in your own words:

"The best learners often make the worst teachers. They are, in a very real sense, perceptually challenged. They cannot imagine what it must be like to struggle to learn something that comes so naturally to them."

-Stephen Brookfield

An Example - CIRCLE OF VOICES

- Individuals think silently about a question (1 min)
- Participants go round the circle in order each person has up to 1 minute of uninterrupted air time to give their viewpoint on the topic. No interruptions are allowed.
- Move into free discussion with the ground rule that every comment offered must somehow refer back to a comment made by someone else in the opening circle of voices. This need NOT be agreement - it can be a disagreement, a question, an elaboration or extension, an illustration, etc.

"Education must begin with the solution of the teacher-student contradiction, by reconciling the poles of the contradiction so that both are simultaneously students and teachers."

Paolo Freire

An Example: Chalk Talk

- Instructor writes a question in the middle of the board
- 5-10 minutes of silence is declared
- Students write responses to the question on the board whenever they feel ready
- Students & instructor draw lines linking comments & add questions & reactions

Prompt

 When Critical Thinking Happens With My Students it

> LOOKS SOUNDS FEELS

like this

Follow Up ...

- Home Page: www.stephenbrookfield.com
- TEACHING FOR CRITICAL THINKING (2012)
- DISCUSSION AS A WAY OF TEACHING (2005, 2nd Ed.).

Both Published by Jossey-Bass/Wiley

• E-mail: sdbrookfield@stthomas.edu

"POSITIVE" FACULTY BEHAVIORS

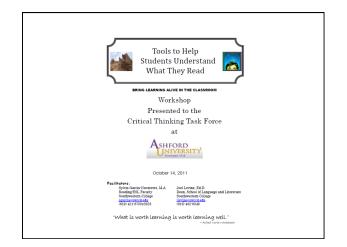
- Challenges students to think more deeply through appropriate questioning
- · Communicates to student's subject matter clearly and effectively
- Provides direction to additional information
- Genuinely compliments or affirms student post
- Follows up to student response
- Summarizes student's comment
- Directs student to another student's post
- Addresses more than individual student
- Shares personal/professional experience in response to student
- Responds to students more than once per week
- Uses 2 or more strategies listed under "Responding to a Peer's Post"
- Cites course material or other scholarly source

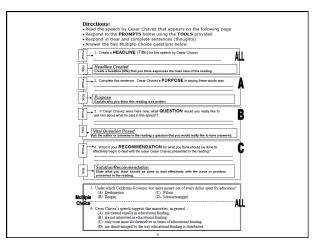


"NEGATIVE" FACULTY BEHAVIORS

- Does not respond to all
- Responses are basically the same
- Asks close-ended questions
- Responses are very limited
- Lack of follow-up to 2nd level
- Response not related to student post
- Uses 1 or 0 strategies from list







OUR READING TOOLBOX

Paramhrasane
Put a seriesce from the reading, into your own words.

Heading Created
Create is heading triple that you think engresses the main idea of the reading.

Significant Sentence Selected

It. However, the second of the parameter of the reading and set why you selected to the second you will be selected to the reading a question you would veally like to have encouraged.

Little Construction Present
Assembly because the second you will be selected to the reading the second you will be selected to the second you will be such or an analysis of you were the author or an analysis of selected to the reading. Selected the second you were the author or an analysis of selected to the reading as if you were the author or an analysis of selected to the reading of you were the author or an analysis of the selected you will be suched or an analysis of the selected you were the author or an analysis of the selected you will be suched or an analysis of you were the author or an analysis of the selected you will be suched or an analysis of you were the author or an analysis of you were the author or an analysis of you were the author or an a

Strategies for Teaching and Learning

- 1. Communicative Seating Strategy
- 2. Name Tents and Randomly Assigned Seating Strategy
- 3. Use of a Speaker's Voice Strategy
- 4. Popcom Read Strategy
- 5. Clear and Complete Sentences (Written and Spoken Thoughts) Strategy
- 6. Circulate-to-Guide Strategy
- 7. Timed-Activities Strategy
- 8. Zenergy Chime Signal Strategy
- 9. "Call On Students" Strategy
- 10. "I Don't Know Yet" Strategy
- 11. Collaborative Activities_Strategy
- 12. Stand-Up & Move Strategy

"Science is built of facts the way a house is built of bricks; but an accumulation of facts is no more science than a pile of bricks is a house." -Henri Poincare



