



# **How Teachers Can Move 21<sup>st</sup> Century Education Forward**

**Building Bridges Conference  
Tan-Tar-A Resort, Ozarks, MO  
November 12, 2012**

**Ken Kay, CEO, EdLeader21**

- What is 21st century education?
- How is it relevant to the common core?
- What can you do?



# What is 21st century education?

# THE 4Cs

## EDUCATIONAL OUTCOMES

Critical Thinking



Communication



Collaboration

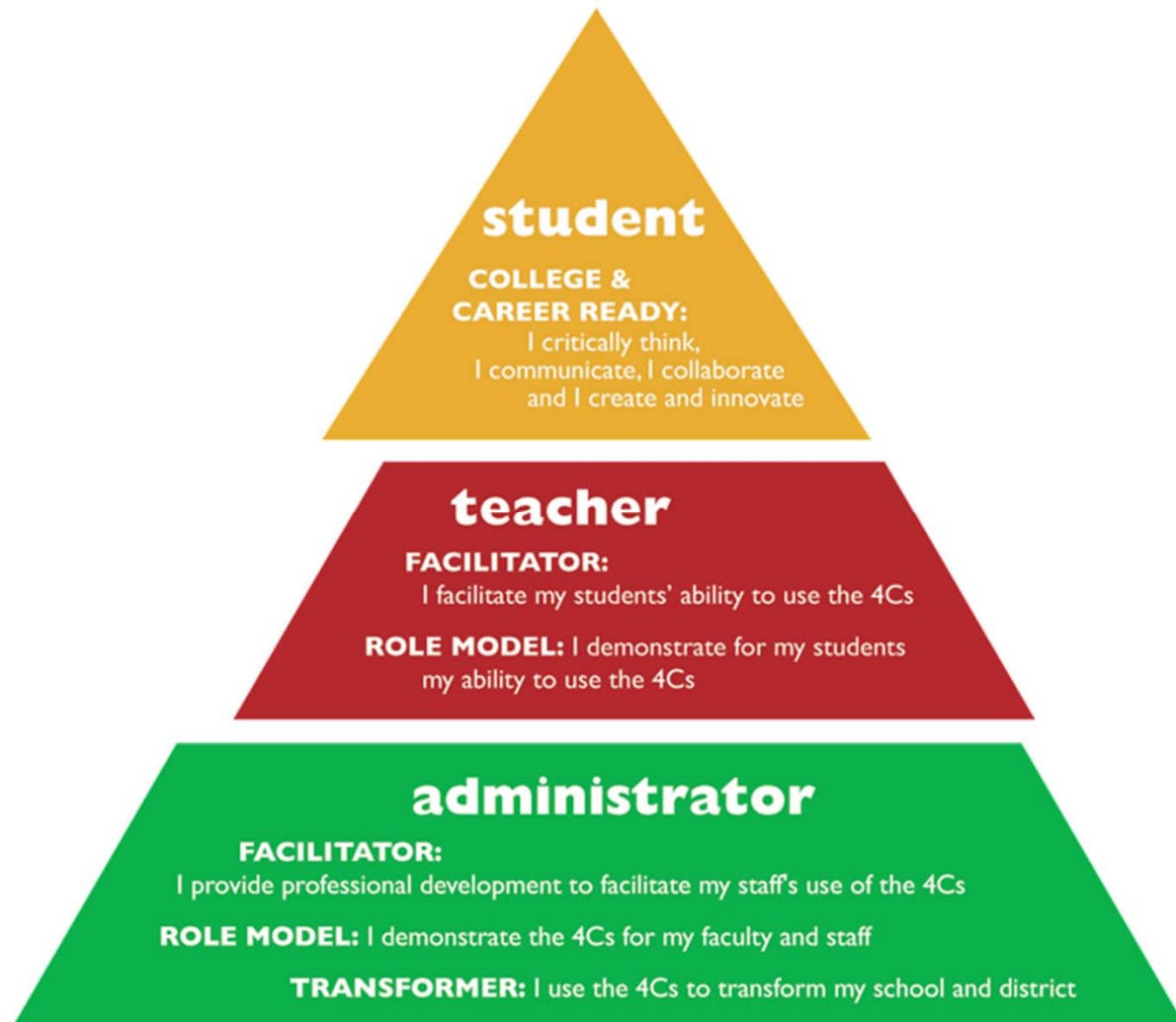


Creativity



# The 4Cs and 21st Century Education

(The 4Cs are Critical Thinking, Communication, Collaboration, & Creativity)



PARTNERSHIP FOR  
21ST CENTURY SKILLS



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# What do we want our students to aspire to?

## Student A

Has mastered the content of:

- Math
- Science
- English
- Social Studies

## Student B

Has mastered the content of:

- Math
- Science
- English
- Social Studies

AND is:

- A critical thinker
- An effective communicator
- An effective collaborator
- Creative and Innovative

# Which student would be a better citizen?

## Student A

Has mastered the content of:

- Math
- Science
- English
- Social Studies

## Student B

Has mastered the content of:

- Math
- Science
- English
- Social Studies

AND is:

- A critical thinker
- An effective communicator
- An effective collaborator
- Creative and Innovative

# Which student would be more productive in the economy?

## Student A

Has mastered the content of:

- Math
- Science
- English
- Social Studies

## Student B

Has mastered the content of:

- Math
- Science
- English
- Social Studies

AND is:

- A critical thinker
- An effective communicator
- An effective collaborator
- Creative and Innovative



# Which student is likely to be more effective in their personal life?

## Student A

Has mastered the content of:

- Math
- Science
- English
- Social Studies

## Student B

Has mastered the content of:

- Math
- Science
- English
- Social Studies

AND is:

- A critical thinker
- An effective communicator
- An effective collaborator
- Creative and Innovative



# **Step 2: Create a community consensus**

## **Communicate effectively**



**<http://tinyurl.com/AboveBeyond-animation>**



How does 21<sup>st</sup> century education  
relate to the common core?

# New AP exams

## Take a look at this college-level biology question

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The creeping horizontal and subterranean stems of ferns are referred to as

1. Prothalli
2. Fronds
3. Stipes
4. Roots
5. Rhizomes


## Now examine this college-level biology question

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The equation above shows a reversible reaction that occurs in blood. An Olympic marathoner training at high altitude in Colorado feels dizzy and begins hyperventilating while taking a run. Her blood pH is elevated, resulting in alkalosis. How will normal blood pH be restored?

1. An increase in  $\text{O}_2$  concentration in the plasma will lead to a decrease in  $\text{H}^+$  concentration
2. An increase in  $\text{CO}_2$  concentration in the plasma will lead to an increase in  $\text{H}^+$  concentration
3. A decrease in sweating will lead to an increase in  $\text{HCO}_3$  concentration
4. A decrease in respiration will lead to an increase in plasma  $\text{O}_2$  concentration



How do we prepare teachers for  
“question #2” education?



What can you do?

*6 Ideas*





1. Bring the 4Cs alive in your classroom.

Preparing 21st Century Students  
for a **Global Society**

**An Educator's Guide to the "Four Cs"**



*Great Public Schools for Every Student*

<http://www.nea.org/tools/52217.htm>

**Read this  
4Cs Guide for  
Educators.**



## 2. Focus on critical thinking.

- Focus on critical thinking
- Example: Upper Arlington (OH)
- Example: Center for Authentic Intellectual Work  
([www.centerforaiw.com](http://www.centerforaiw.com))



### **3. Focus on creativity and collaboration.**

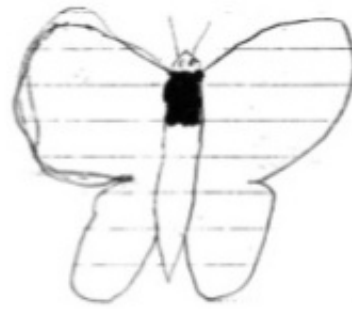
# Austin's Butterfly

6



# Austin's Butterfly

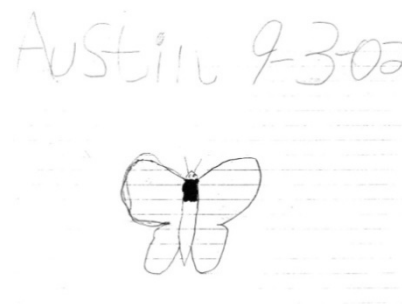
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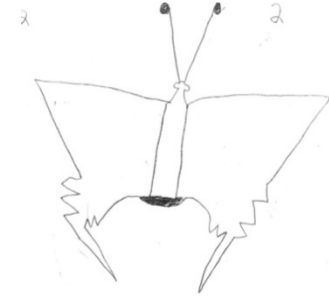
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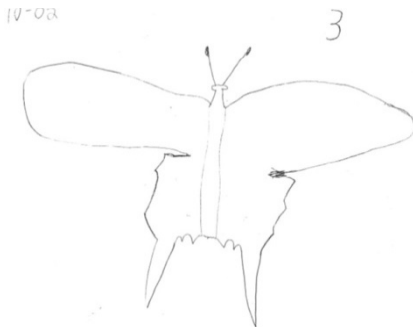
Assignment Photo



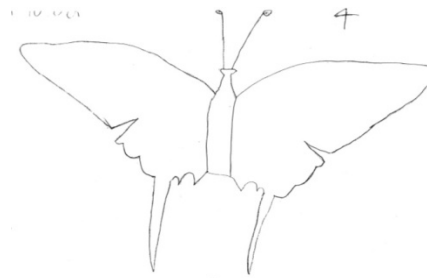
Draft 1



Draft 2



Draft 3



Draft 4



Draft 5





# Austin's Butterfly

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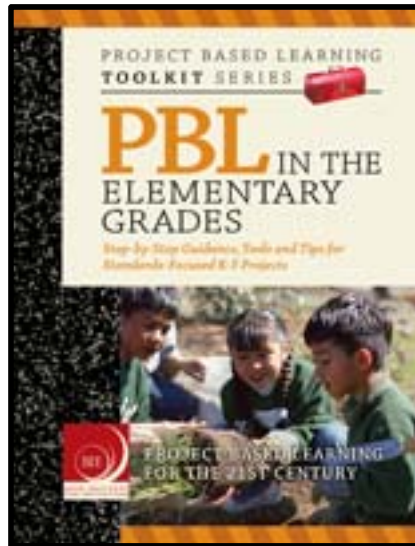
Final (Draft 6)

***[www.youtube.com/watch?v=JFHf7jAfJlg](https://www.youtube.com/watch?v=JFHf7jAfJlg)***



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## 4. Focus on PBL.



## ***PBL for elementary grades***

[www.bie.org](http://www.bie.org)

## ***PBL starter kit***

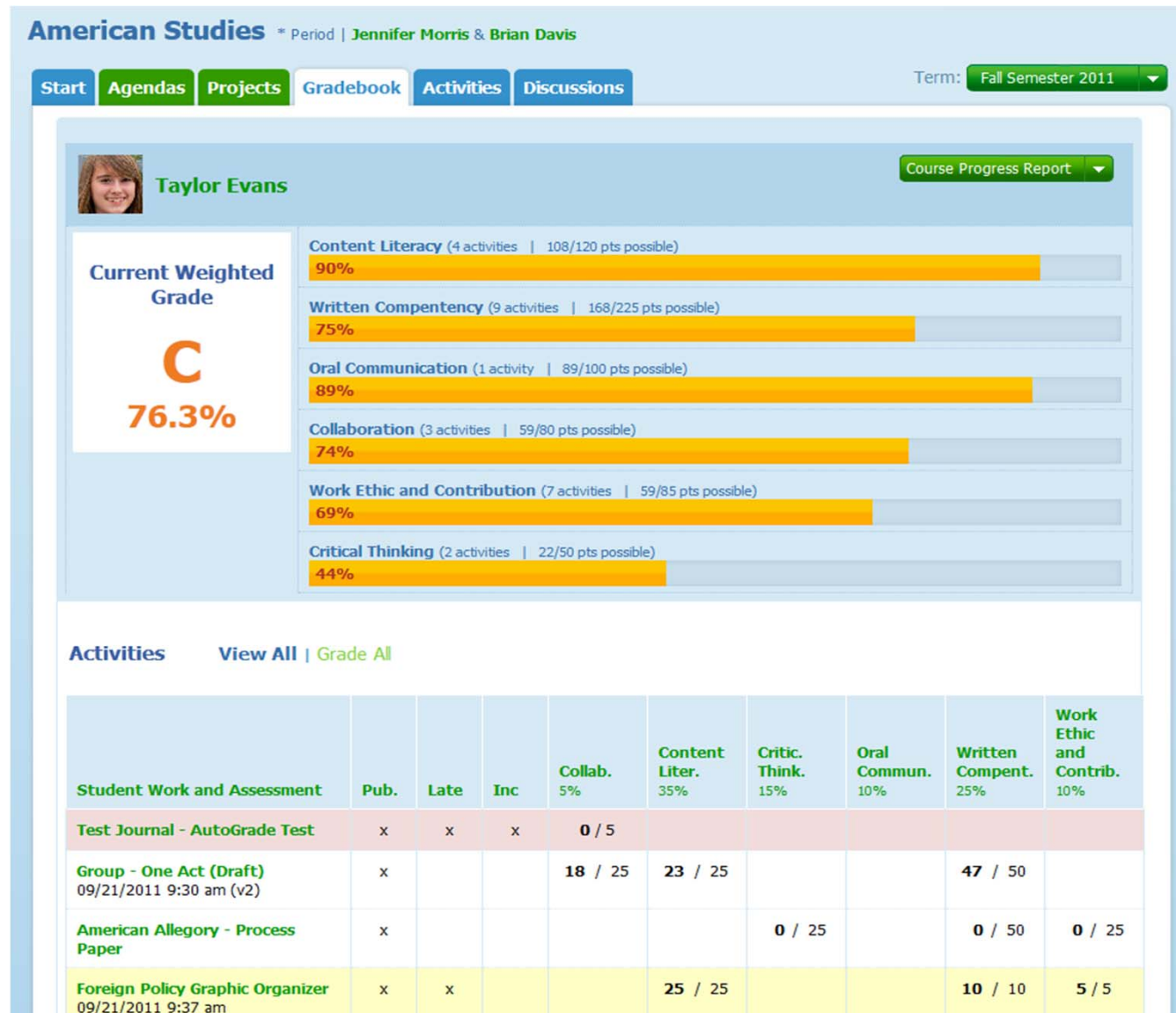


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## 5. Focus on assessment.

**Use rubrics for the 4Cs.**

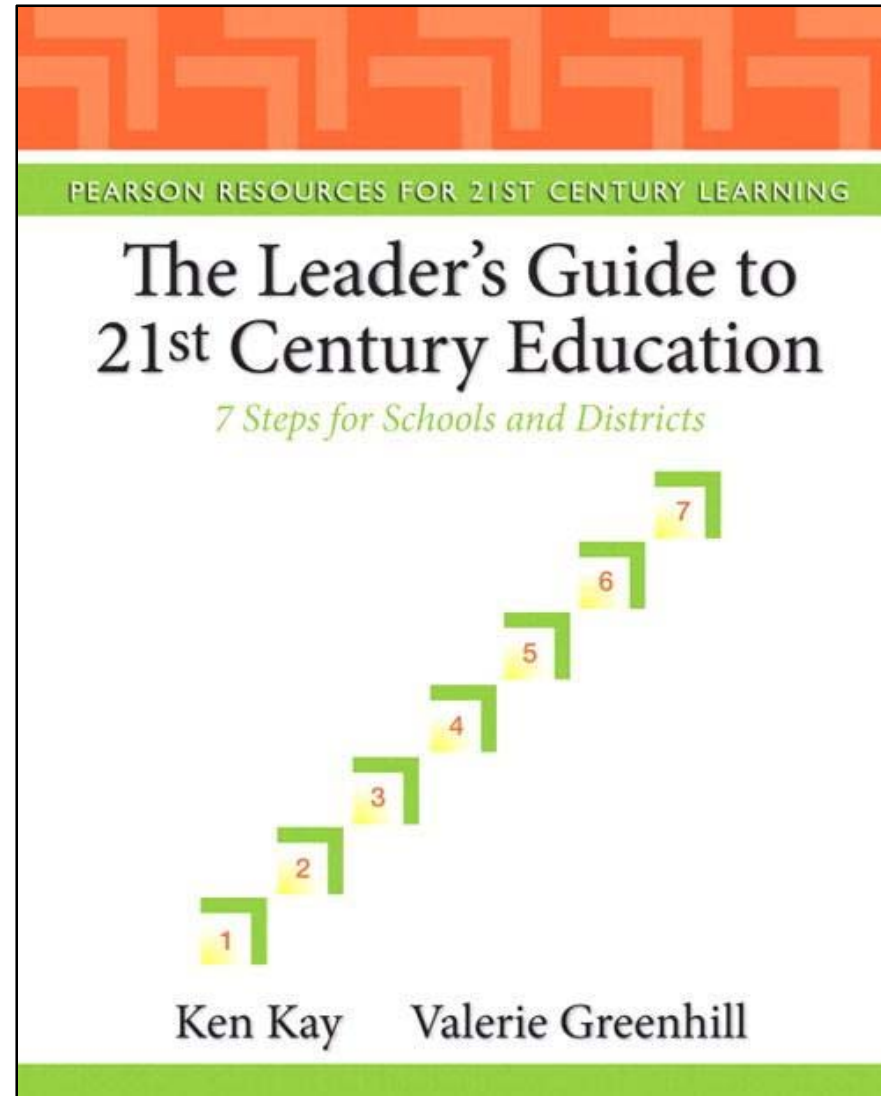
# Focus on Transparency





## 6. Focus on leadership.

## New Book on the 7 Steps



To order: <http://tinyurl.com/EL21-7Steps>

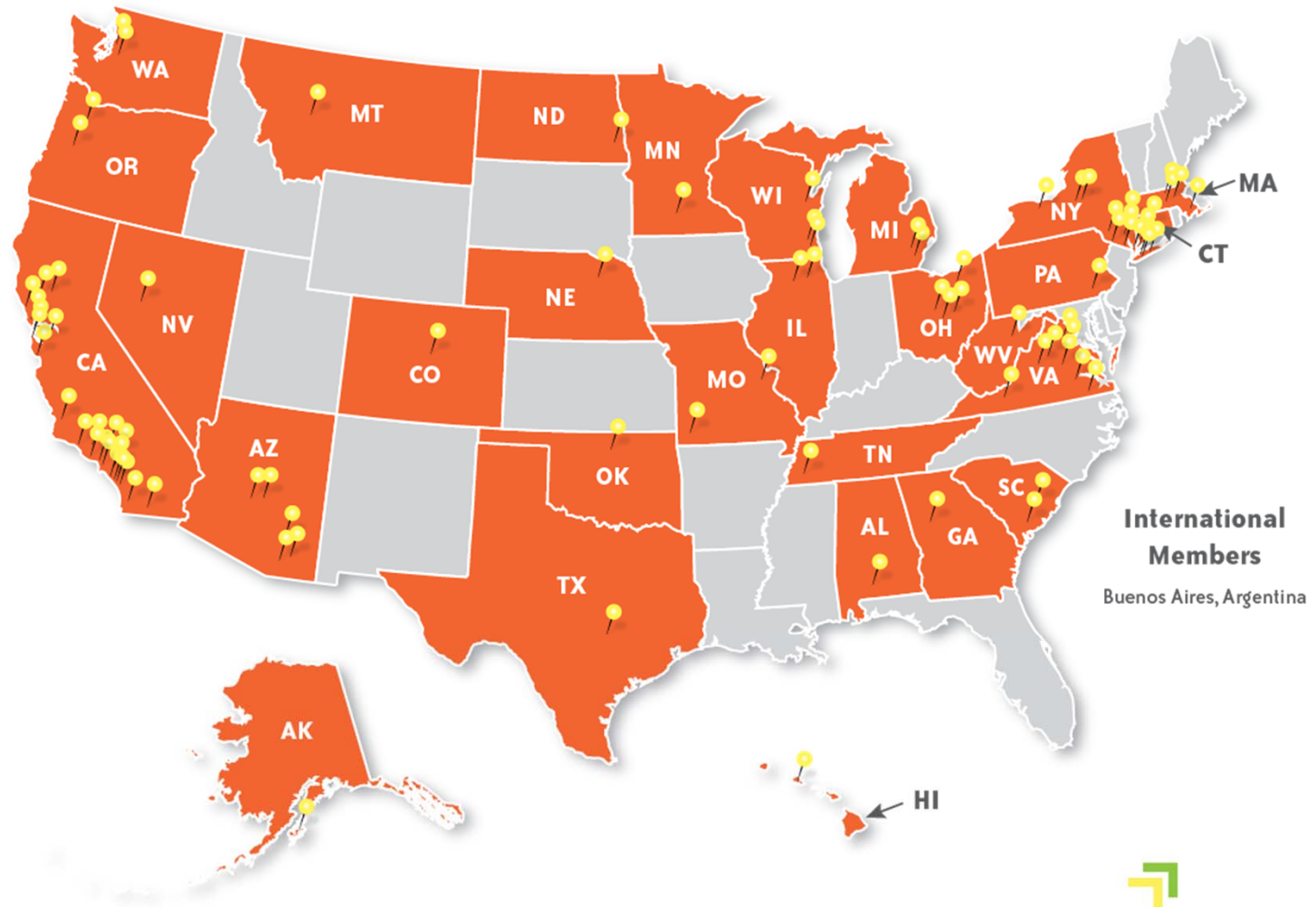




 **EdLeader21**

EdLeader21 is a professional learning community of superintendents and district leaders committed to 21st century education.

**EdLeader21 has over 105 members from 31 states and Argentina representing over 2 million students.**



# Conclusion

**We will never have 21st century education in this century unless every teacher, leader, school and district embraces the 4Cs for their students.**



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