



# LINKING TECHNOLOGY TO 21<sup>ST</sup> CENTURY TEACHING PRACTICE

BETH METCALF, TEACHER-IN-RESIDENCE

PDS Learning Day

Fall 2009

# Did You Know...



- The **NC Professional Teaching Standards** were written, in part, from the **NC Teacher Working Conditions Survey** feedback?

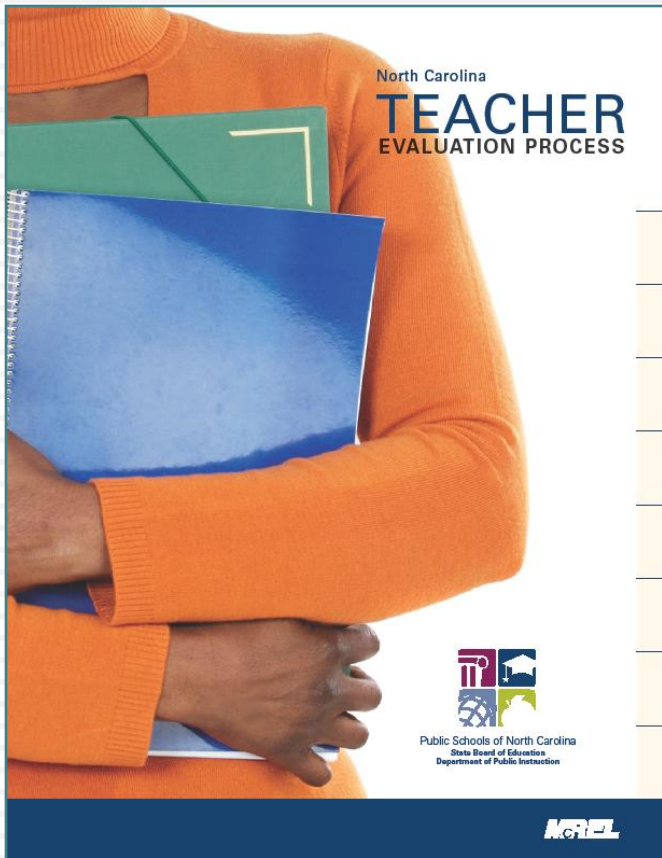
# Did You Know...



## **NC Teacher Working Conditions Survey**

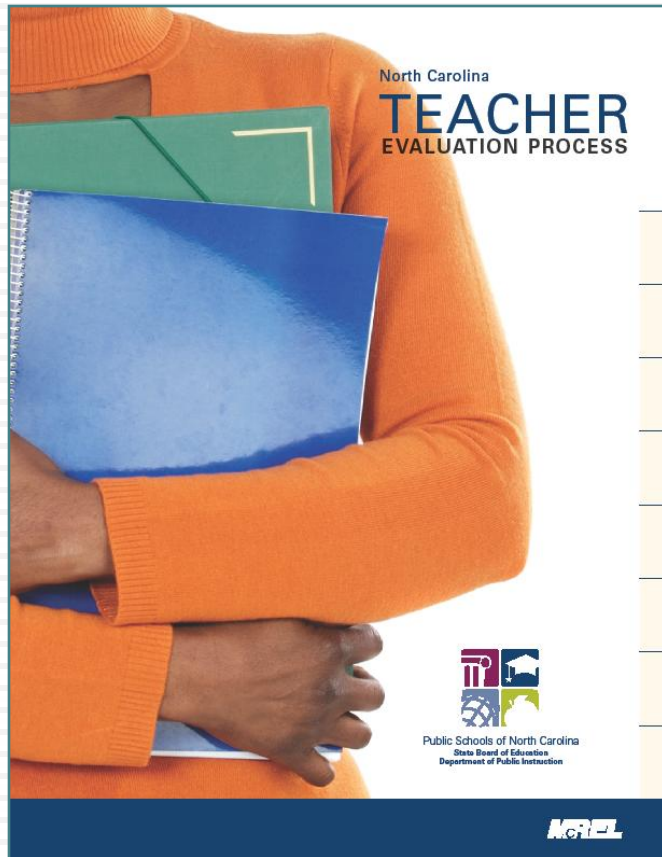
- For the past three years there is a consistent piece of data from teachers who believed they were in schools that were productive and creative? These teachers also showed high levels of satisfaction with their school.
- *Teachers have access to current technology that allows them to prepare students to be successful.*

# Did You Know...



- The new evaluation instrument for teachers is written directly from the NC Professional Teaching Standards that are based on teacher feedback in the NC Teacher Working Conditions Survey?

# Did You Know...



These words are in the standards/evaluation instrument

- Developing globally competitive students
- Engaging, relevant, meaningful instruction
- Applying 21<sup>st</sup> century skills
- Integrating projects among disciplines
- Differentiating instruction
- Using communication technology
- Promoting global awareness
- Impacting student learning

....many times?

What indicators  
of a 21<sup>st</sup>  
Century  
Graduate are  
taught in a  
relevant  
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What indicators  
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What are  
the themes  
that emerge?

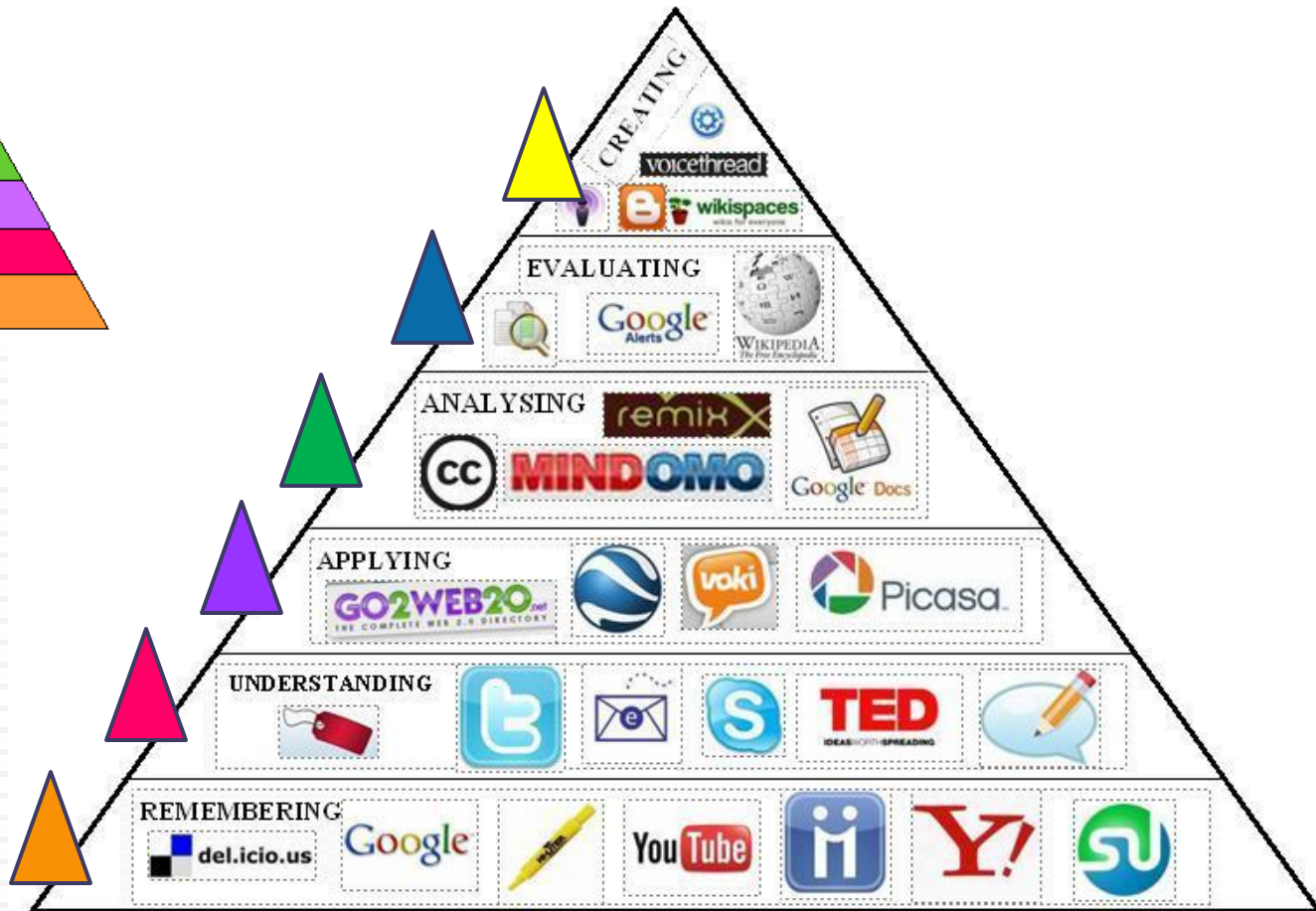
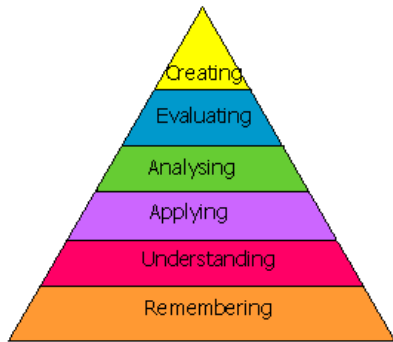


# Critical Thinking

## Bloom's Taxonomy



# Critical Thinking Using Technology

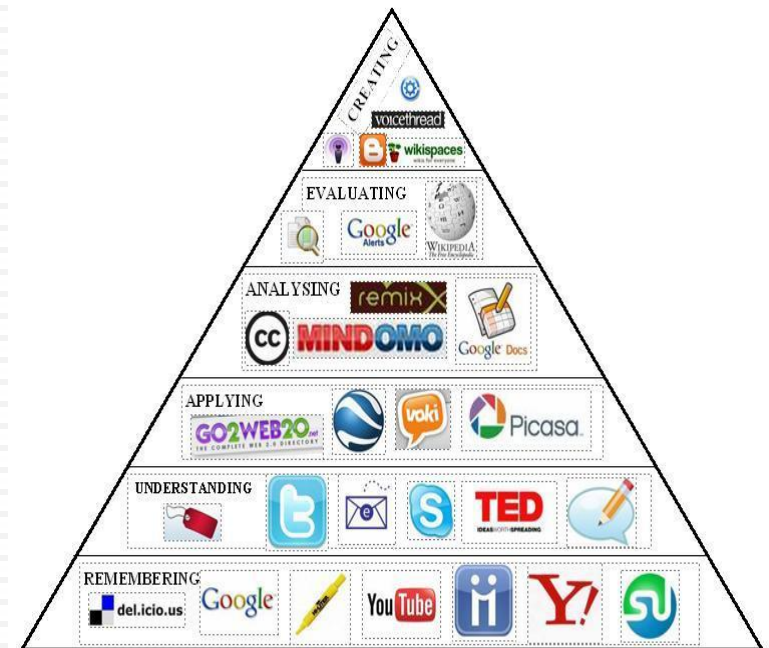


M.Fisher 2009 digigogy.blogspot.com

**Bloom's Taxonomy**

# Self-Evaluation

- Which technologies are you most familiar with?
- Which ones are open and usable in your school and/or classroom?
- Which technologies are you directly using with students?



# Goals for Student Learning

- Developing globally competitive students
- Engaging, relevant, meaningful instruction
- Applying 21<sup>st</sup> century skills
- Integrating projects among disciplines
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- Using communication technology
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# Why is technology use important to students?



Student satisfaction with technology infused learning comes from:

- flexibility
- ease of use
- a commitment to technology (not a hit or miss approach)
- A high level of satisfaction that the *instructor understands technology*

# Why should our students be using technology tools?



- Our economic and world landscape are changing....
- **Wikinomics**
  - Billions of connected individuals can now actively participate in innovation, wealth creation, and social development in ways we only once dreamed. There is a rapid growth in collaborative enterprises, we call them MySpace, Innocentive, Flickr, Second Life, YouTube....

# Why should our students be using technology tools?



## ➤ The Proctor and Gamble Story

*With the pace of innovation in consumer products having doubled in five years, an army of researchers is no longer sufficient to keep P&G at the forefront. For every P&G researcher there are 200 scientists or engineers elsewhere in the world who are just as good. P&G launched its "connect and develop" initiative to help tap this vast reservoir of talent, the idea wasn't to replace its researchers, but to better leverage them. For example, when P&G set out to launch a new line of Pringles potato chips with trivia questions and animal pictures printed on each chip, it discovered that producing images on thousands of chips each minute was highly complex.*

*P&G formulated a paper describing the technology it needed and tapped its global network to see if someone could solve the problem. A solution popped up in a small bakery in Bologna, where a university professor was printing edible images on cakes and cookies. He'd cooked up an ink-jet method, and it looked like this would solve P&G's problem. So P&G acquired the technology and adapted it. Huston says P&G was able to launch Pringles Prints in less than a year, and for much less than what it would have otherwise cost.*

# 3 Steps to a 21<sup>st</sup> Century Classroom



- <http://www.youtube.com/watch?v=2yCB4i7GJuM>

# We...



- cannot act alone
- cannot teach alone...

In a global society.

# We are not alone...



We are not alone.



We are not alone.

**Our students  
must be  
critical  
thinkers, that  
can think  
and act  
globally.**



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