

## Congratulations on what you've accomplished with technology!









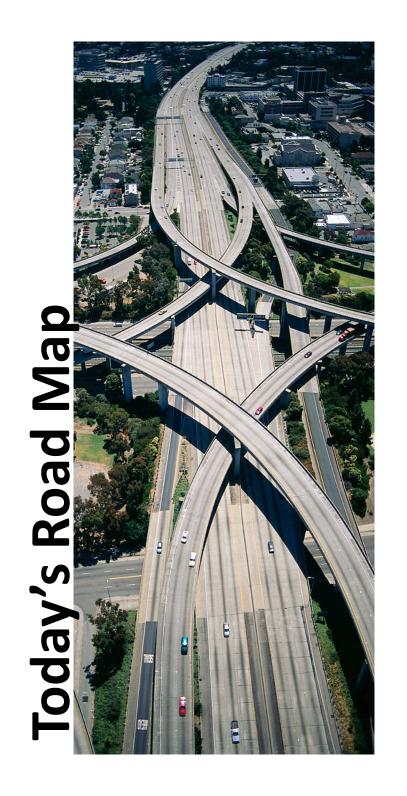


#### http://bit.ly/bridger-ipad



Download today's slides: http://bit.ly/fontblog.

### WHOA! If a two year-old can use an iPad, what are the implications for our work?



- An Unfocused Lens:
   The Dizzying Choices
- Refocusing Our Lens:
   What Do We Mean by Rigor?
- Testing Our Lens:
   Student Work Samples





## THEN Paucity & High Cost Careful Selection of Tools

NOW

Abundance & Low/No Cost

Careful choice doesn't matter...

Or does it?



## It's so easy to make things look fancy...

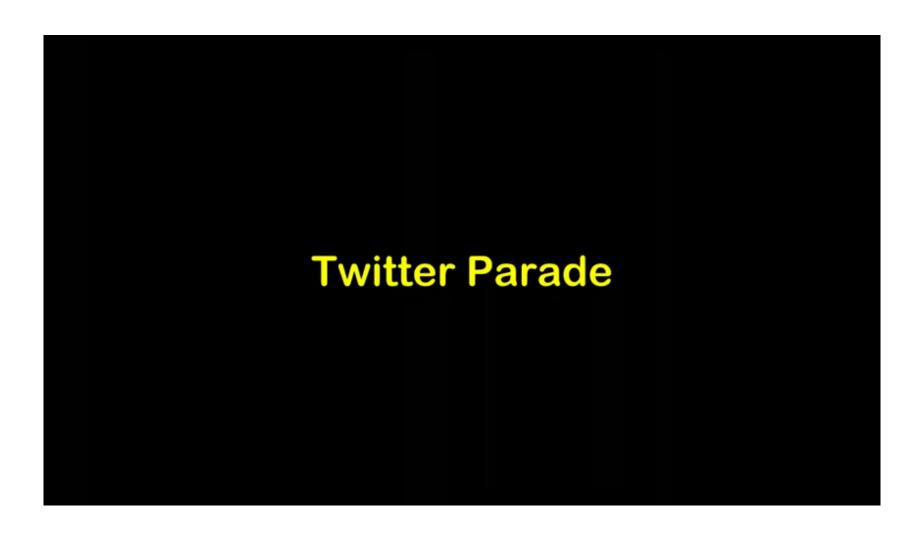
...that sometimes we credit students what programmers behind the scenes have actually facilitated.

(Little input > Big output)



http://bit.ly/ twitterparade

#### http://bit.ly/twitterparade



powered by **Ewitter** 



#isparade on 🐚

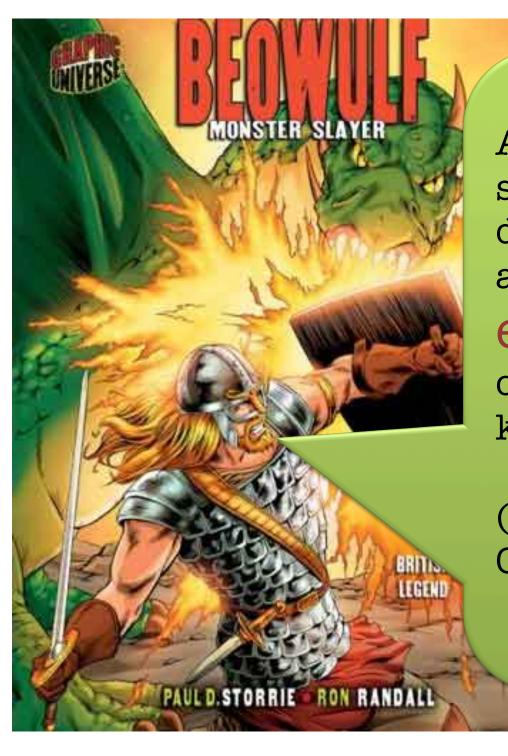
RT @shinyoung\_park See twitter parade by keyword

Terms

11/

Little input, big output.





And sometimes, our students expend a disproportionate amount of

e-effort

over knowledge-building.

(BIG INPUT > LITTLE OUTPUT)





## My Explorers Report!!!!!!





Christopher Columbus
Was born in 1461.







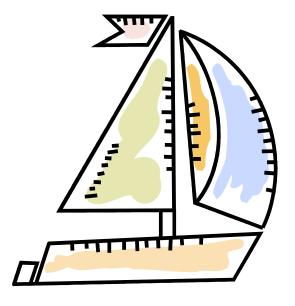
#### He Was born in Italy.



740ME 07 P133A!!!!!!! YUM!!!!

#### HE HAD THREE













# He discovered AMERICA!!!

sie died in 1506.

It was sad.

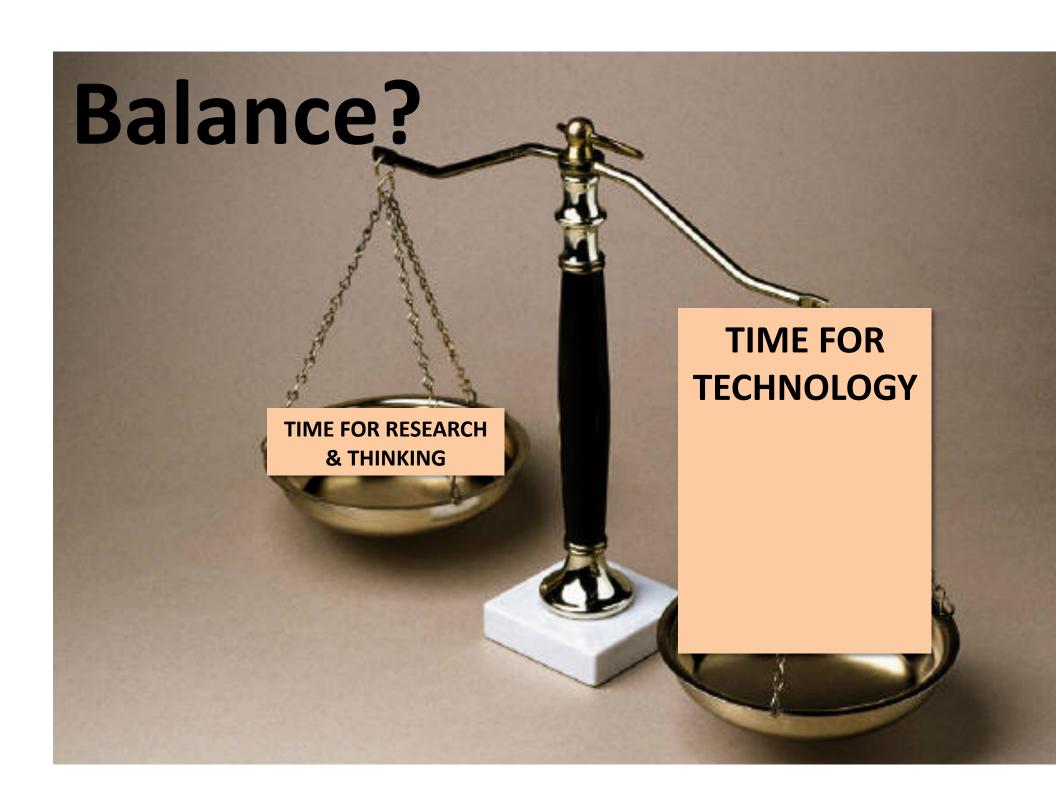


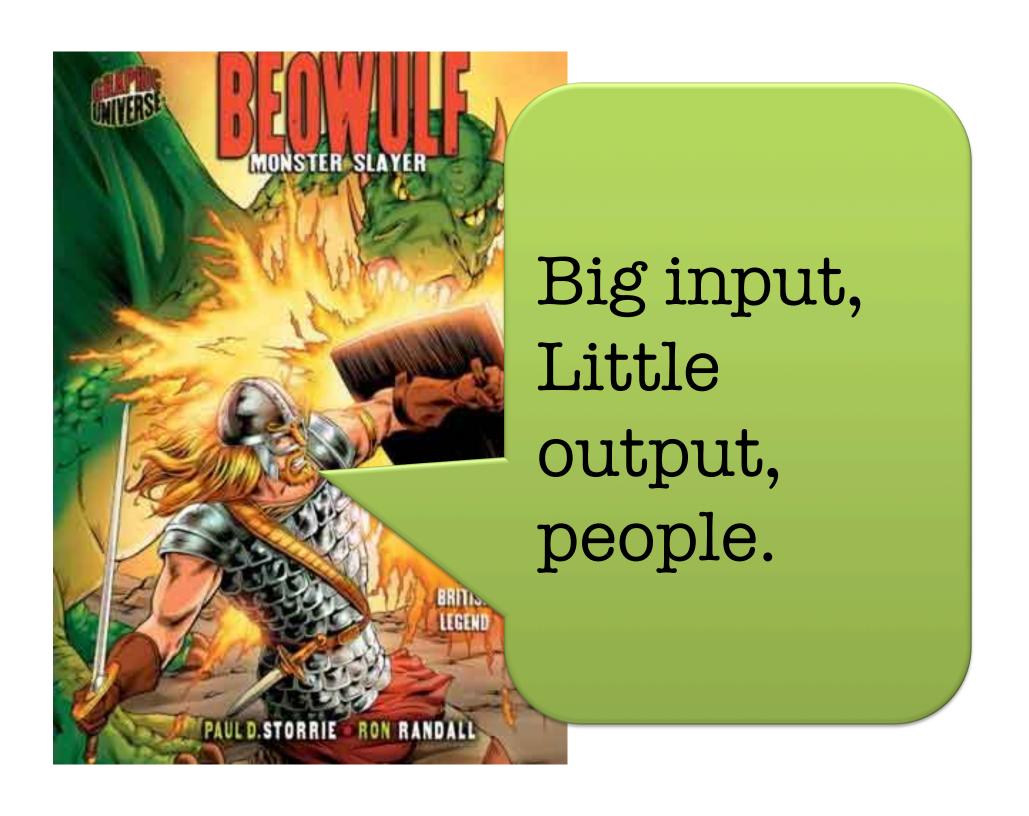


#### Turn and Talk:

What letter grade would you give this assignment?

Why?









## My Country Report!!!!!









## My Battle Report!!!!!!









## My Mammal Report!!!!!!

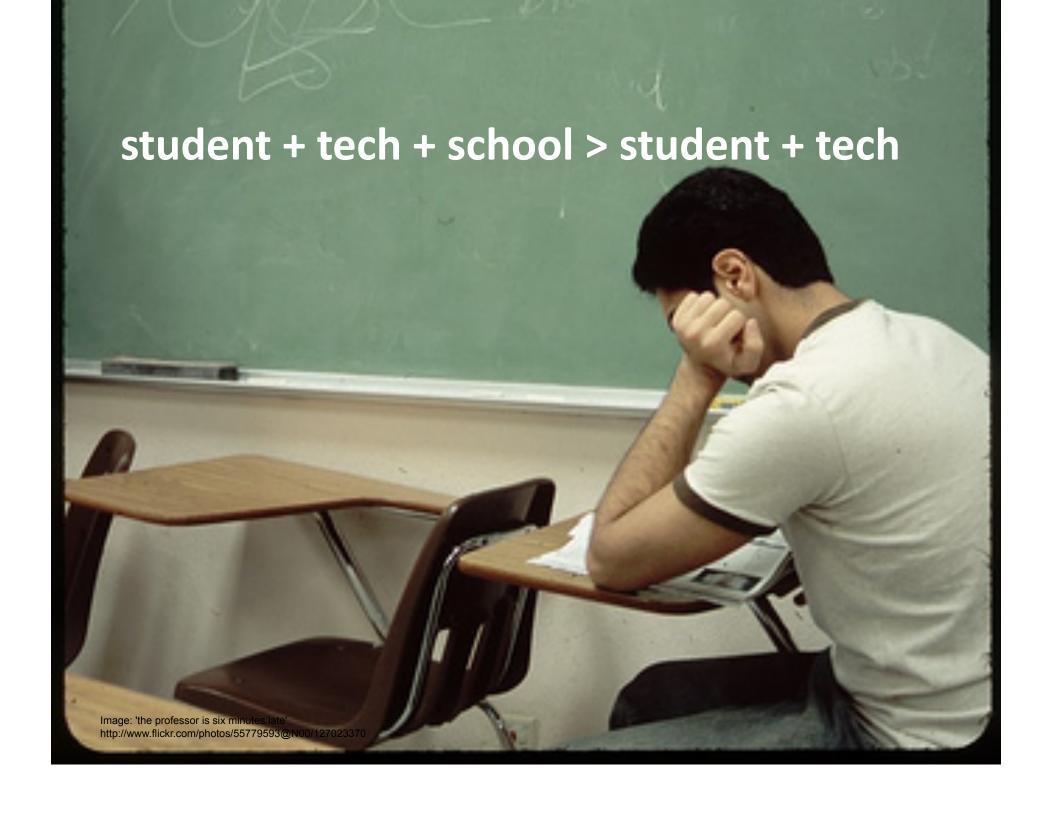


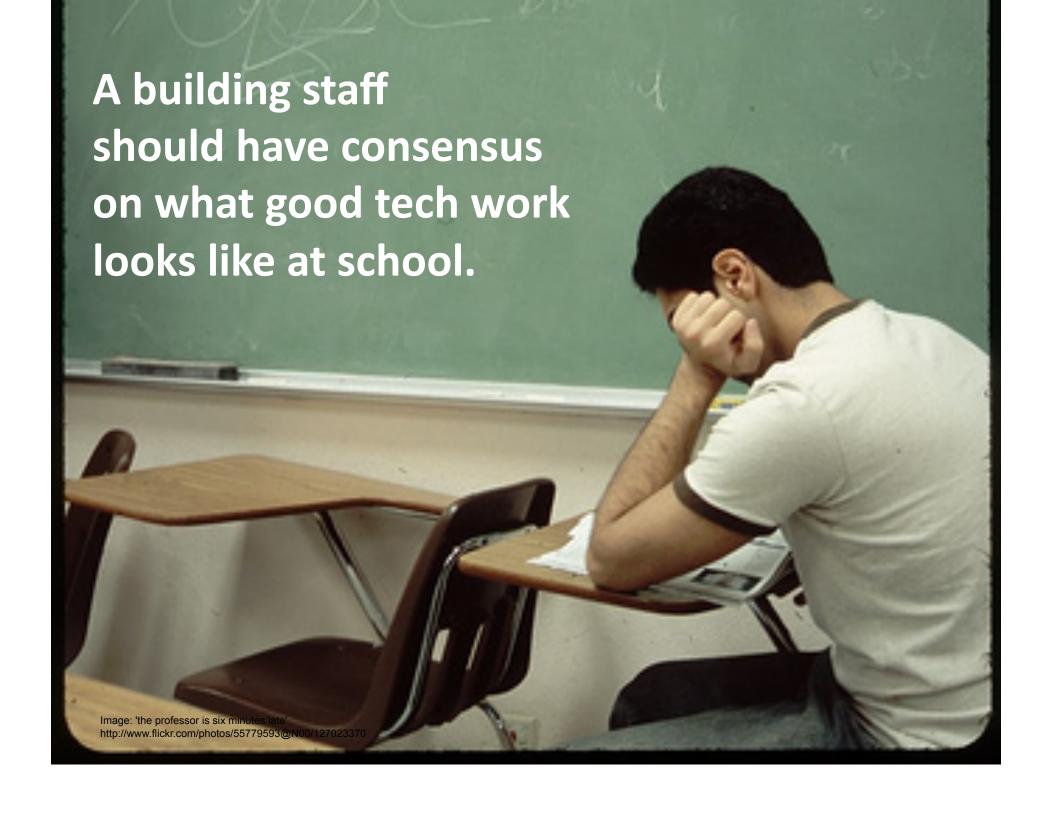




Where's the Beef?\*
How Do We Know Rigor When We See It?

Vigor\*\*





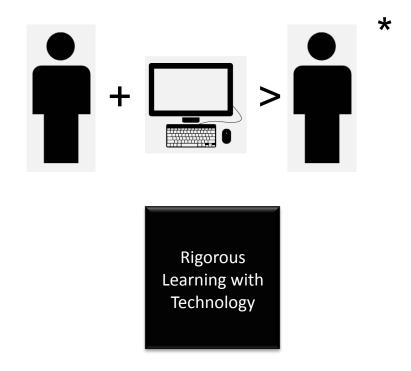
You can't just push away the uncertainties; you have to push through them."

-Jeff Stanzler

### So I started pushing ....

Rigor means exciting challenge, not rigor mortis! Insert VIGOR if you prefer

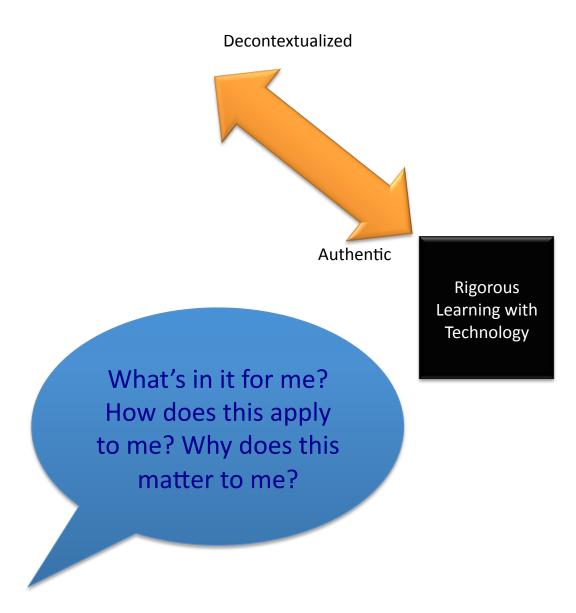
Rigorous Learning with Technology

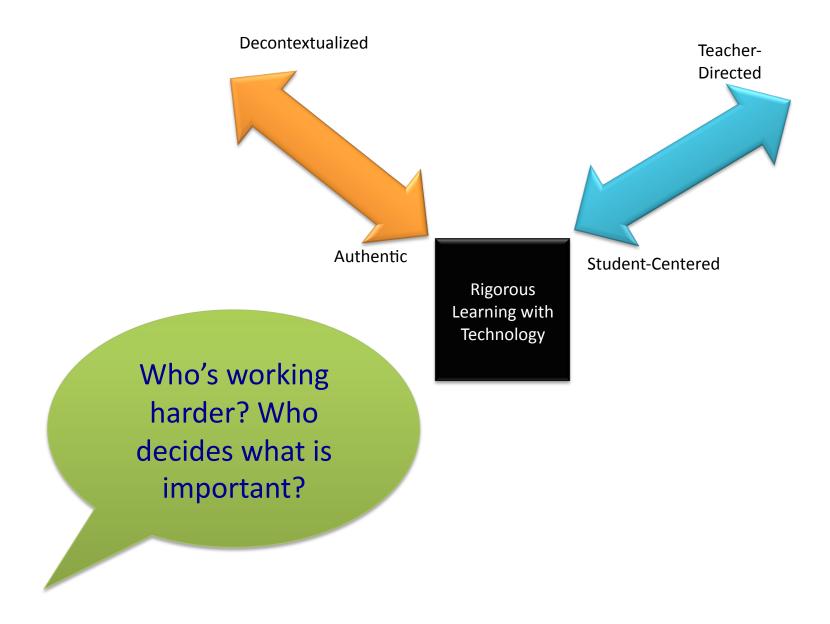


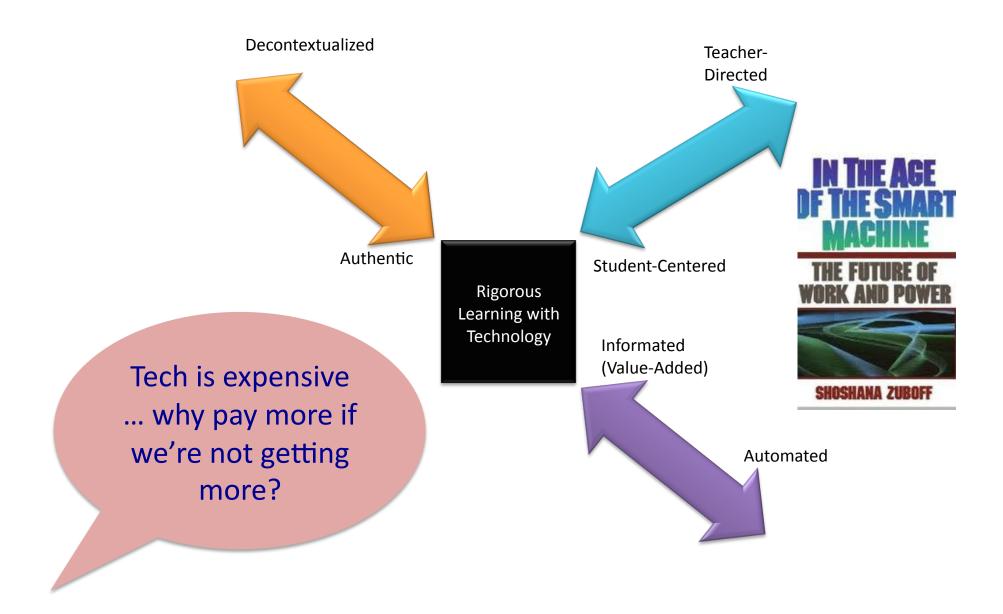
\* Charles Friedman, definition of Informatics

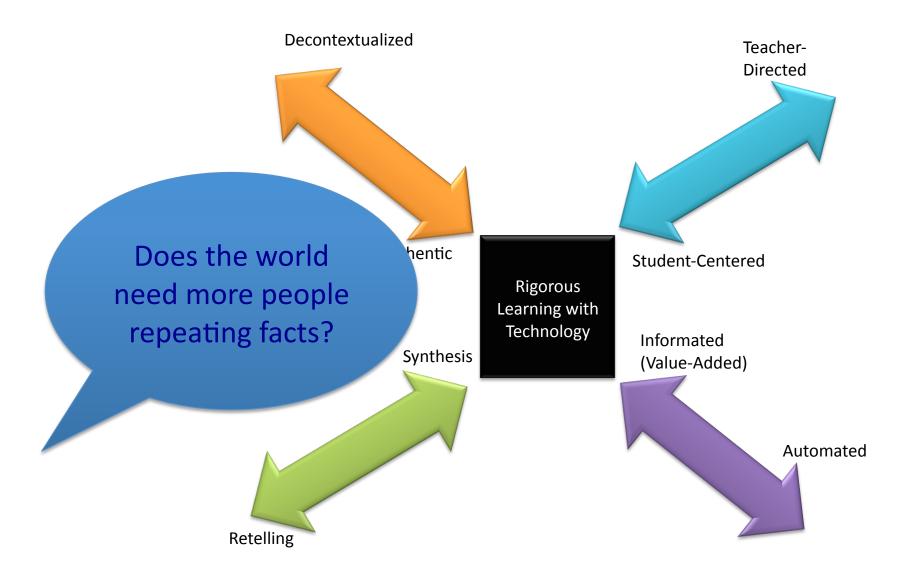
"Man" by Michael McMillan and "Computer" by Alyssa Mahlberg from thenounproject.com collection. Used under a Creative Commons CC-BY 3.0 license.

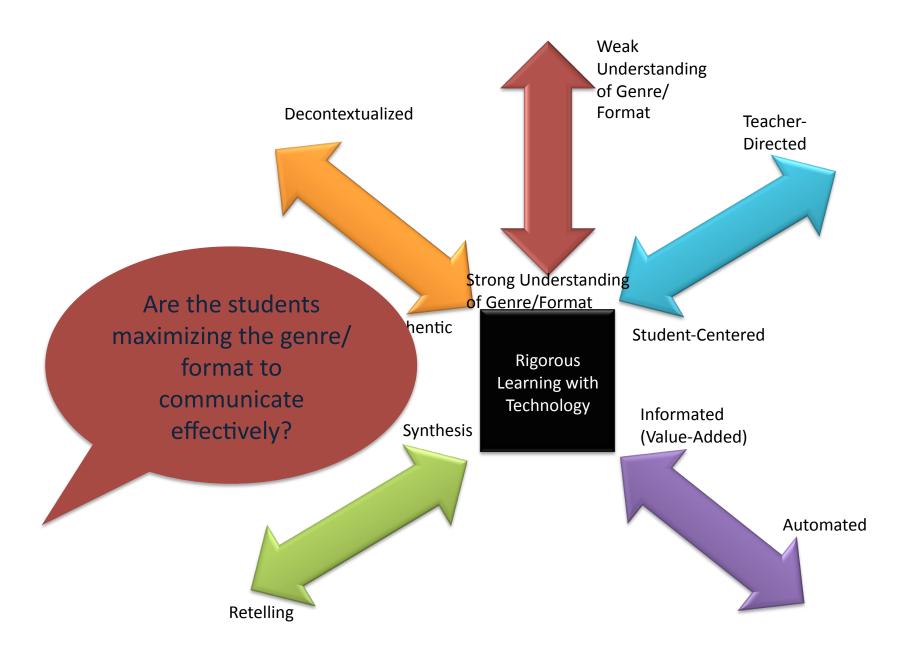
(with thanks to Roberta Sibley, Laurie Olmsted, Jeff Stanzler, and Raya Samet for contributing their feedback!)

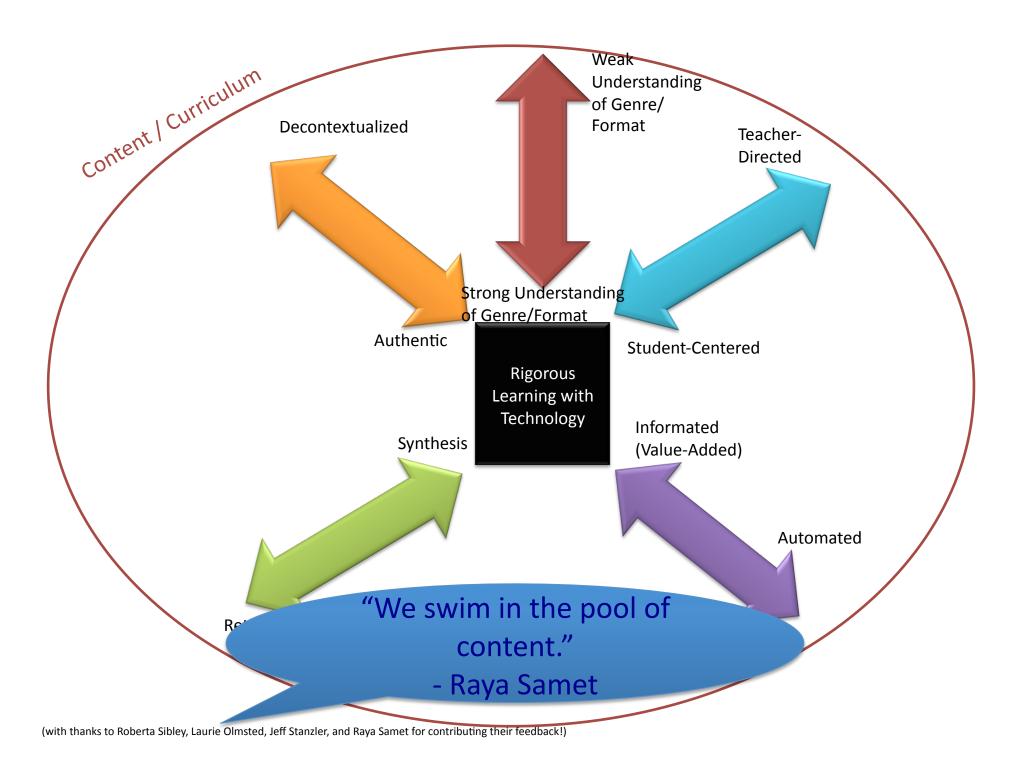












## Above & Beyon

Today's students are moving beyond the basil and embracing the 4C's — "super skills" for the 21st



Communication

Sharing thoughts, questions, ideas, and solutions



**Collaboration** 

Working together to reach a goal — putting talent, expertise, and smarts to work



**Critical Thinking** 

Looking at problems in a new way, linking learning across subjects & disciplines



**Creativity** 

Trying new approaches to get things done equals innovation & invention



For more 4C resources from the Partnership for 21st Century Skills, including the animated film ABOVE & BEYOND by Peter H. Reynolds & FableVision, journey to www.p21.org/4Cs



PARTNERSHIP FOR 21ST CENTURY SKILLS



http://www.p21.org/storage/documents/4csposter.pdf

#### The Silent Partners

Creativity
Motivation
Enthusiasm
Engagement
"Hands on keyboards"

Image: 'Talk Shows On Mute' http://www.flickr.com/photos/44538772@N00/67865829

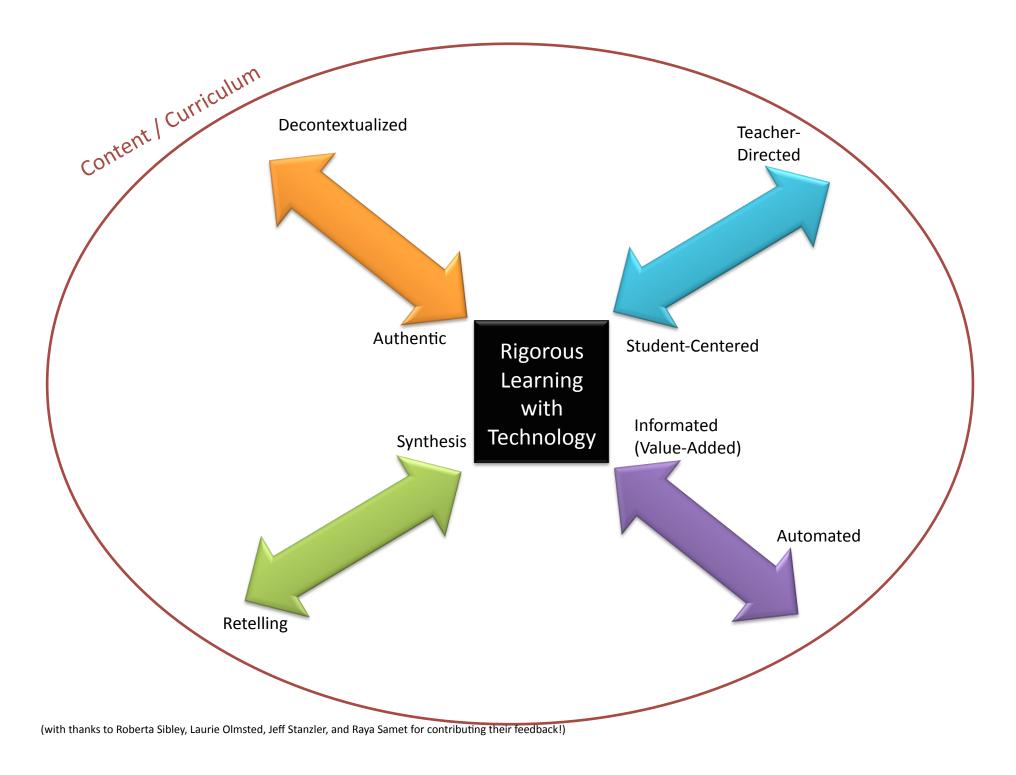




http://bit.ly/sofia-otter

#### http://bit.ly/sofia-otter







http://bit.ly/watsons1963

http://bit.ly/watsons1963 The Bombing

happened at Sunday,

15th September,

1963. At The

Church. RECORDED LIVE !!!!!!!!!CLICK!!!!!!!!!! LITTLE THE 12 YEAR OLD !!!!!!!!!HERE!!!!!!!!!! Check it out!!!!!!! Addie Mae Collins, Carole Roberston, Denise Mcnair, and Cynthia Wesley The explosion blew a hole in the had all died the day of the church's rear wall, destroyed the bombing back steps, and left intact only rames of all but one stained-glass window. By the author of Newbery Award Whiter Bu. Nor Budy The Watsons Go to Birmingham — 1963

#### http://bit.ly/watsons1963

CLICK HERE!!!! The bombing happened at Sunday, 15<sup>th</sup> September, 1963. At the 16<sup>th</sup> Baptist Church.

Check it out!!!!!!!!

Addie May Collins, Carole Roberston [sic], Denise Mcnair, and Cynthia Wesley had all died the day of the bombing.

The explosion blew a hole in the church's rear wall, destroyed the back steps, and left intact only the frames of all but one stained glass window.





# Better Ingredients. Better Picarnic.

#### **Questions?**

font@umich.edu @activelearning



ibrarians as Professional Developers Debbie Abilock Kristin Fontichiaro, and Violet H. Harada, Editors School Libraries:

Navigating the Information Tsunami:
Engaging Research Projects that Meet
the Common Core State Standards, K-5

Edited by Kristin Fontichiaro



School Libraries:
What's Now, What's Next,
What's Yet to Come

Science
Libraries:
What's Now, What's Next,
What's Yet to Come

Libraries:
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Information Literacy in the Wild



Kristin Fontichiaro and Buffy Hamilton

Foreword by R. David Lanke

Edited by Kristin Fontichiaro Foreword by Jeffrey MacKie-Mason

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