



**Rigorous Learning  
with  
21st-Century  
Technology**

**Kristin Fontichiaro**

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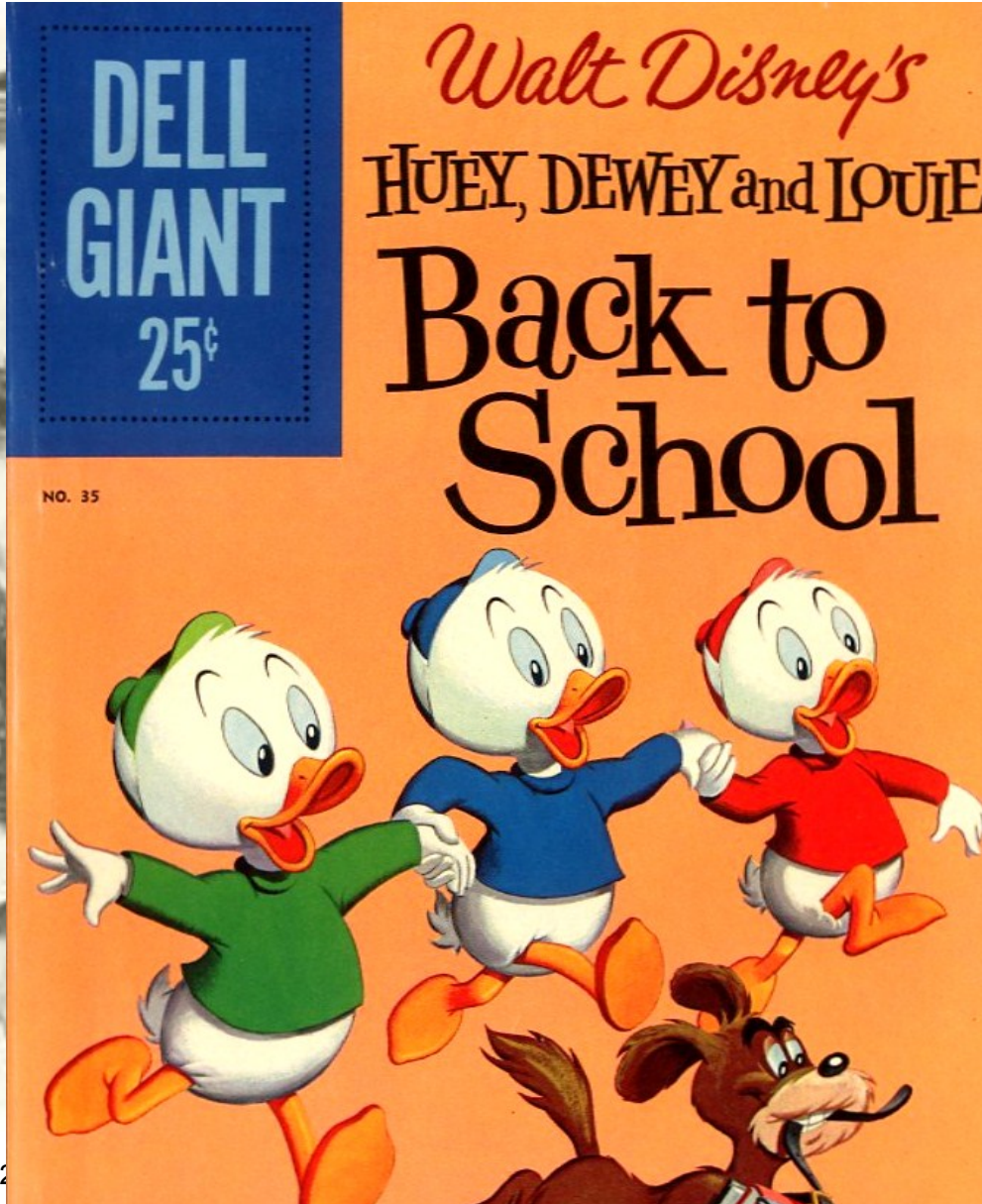
**[@activelearning](#)**

Hash, Corned  
Beef

Hash Tag



# \_\_\_?\_\_\_



<http://www.hdges.org/Melvil%2>

[http://3.bp.blogspot.com/\\_Y8m29ZLX5ag/TGoZNO9O47I/AAAAAAAAAF-o/](http://3.bp.blogspot.com/_Y8m29ZLX5ag/TGoZNO9O47I/AAAAAAAAAF-o/)

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[+1960.jpg](http://4.bp.blogspot.com/_1UjE#Back+to+School+OL-NXZmDcxU/S9R-2hGx2II/AAAAAAAK0c/+1960.jpg)

[idcBefH2Iz0/s1600/Dewey+John.jpg](http://4.bp.blogspot.com/_1UjE#Back+to+School+OL-NXZmDcxU/S9R-2hGx2II/AAAAAAAK0c/idcBefH2Iz0/s1600/Dewey+John.jpg)

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



<http://www.digibarn.com/collections/systems/appleII-bell-and-howell/CIMG2740.JPG>

Image: 'hardcore gaming at the office'  
<http://www.flickr.com/photos/35448539@N00/5229554976>

Lemonade  
15¢

COPYRIGHT 1979 APPLE COMPUTER INC.





[http://bebetocool.files.wordpress.com/2010/06/macintosh\\_classic.jpg](http://bebetocool.files.wordpress.com/2010/06/macintosh_classic.jpg)



A M E R I C A

*Cineline*





<http://bit.ly/bridger-ipad>



**WHOA!**

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

# Today's Road Map

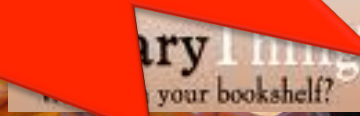
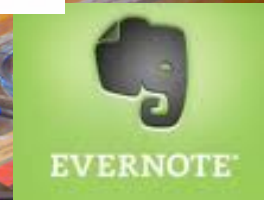


- **An Unfocused Lens:**  
The Dizzying Choices
- **Refocusing Our Lens:**  
What Do We Mean by Rigor?
- **Testing Our Lens:**  
Student Work Samples



# **An Unfocused Lens: Dizzying Choices**

# The Web 2.0 Candy Store



**THEN**

***Paucity & High Cost***  
**Careful Selection of Tools**

**NOW**

***Abundance & Low/No Cost***  
**Careful choice doesn't matter...**  
**Or does it?**



# **Refocusing Our Lens:**

**What Do We  
Expect Students  
to Accomplish  
with Technology?**



*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)**



Fancy Nancy (O'Connor)



Check out  
this Twitter  
Parade!



[http://bit.ly/  
twitterparade](http://bit.ly/twitterparade)

<http://bit.ly/twitterparade>

**Twitter Parade**



## Let's parade with twitter people!

Twitter ID   Keyword

activelearning

START

2,093,934 parades have played by now

Let's Parade!!!



### Popular Parade

[sandwich](#) [内閣](#) [world cup](#) [トイデジ](#) [hot](#) [南アフリカ](#) [ラーメンOR麵](#) [ニュース](#)  
[LOVE](#) [なう](#)

#isparade on  RT @shinyoung\_park See twitter parade by keyword

**Little  
input,  
big  
output.**



Fancy Nancy (O'Connor)



And sometimes, our students expend a disproportionate amount of **e-effort** over knowledge-building.

(BIG INPUT > LITTLE OUTPUT)



# My Explorers Report!!!!!!!

By Kristin

Fontichiaro



Christopher  
Columbus  
was born in  
1461.







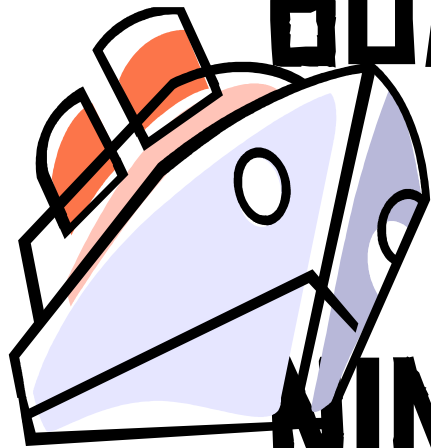
**He  
was  
born  
in  
Italy.**



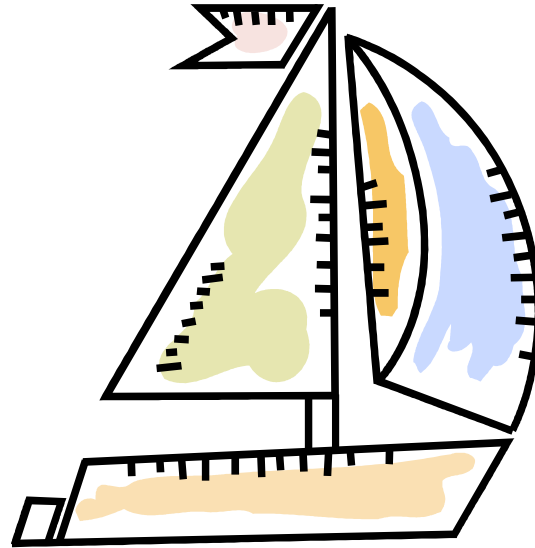
*HOME OF PIZZA!!!!!!! YUM!!!!*

HE HAD THREE

BOATS:



NINA



PINTA



SANTA MARIA



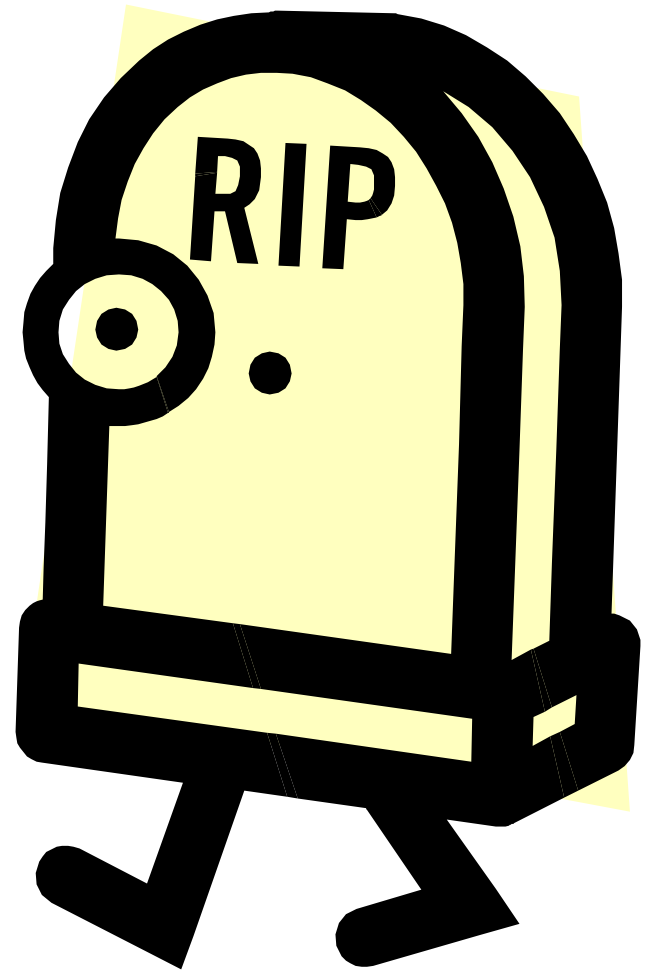
**He**

**discovered**

**AMERICA!!!**

He died in 1506.

*It was sad.*



THE

END



# **Turn and Talk:**

What letter grade  
would you give this  
assignment?

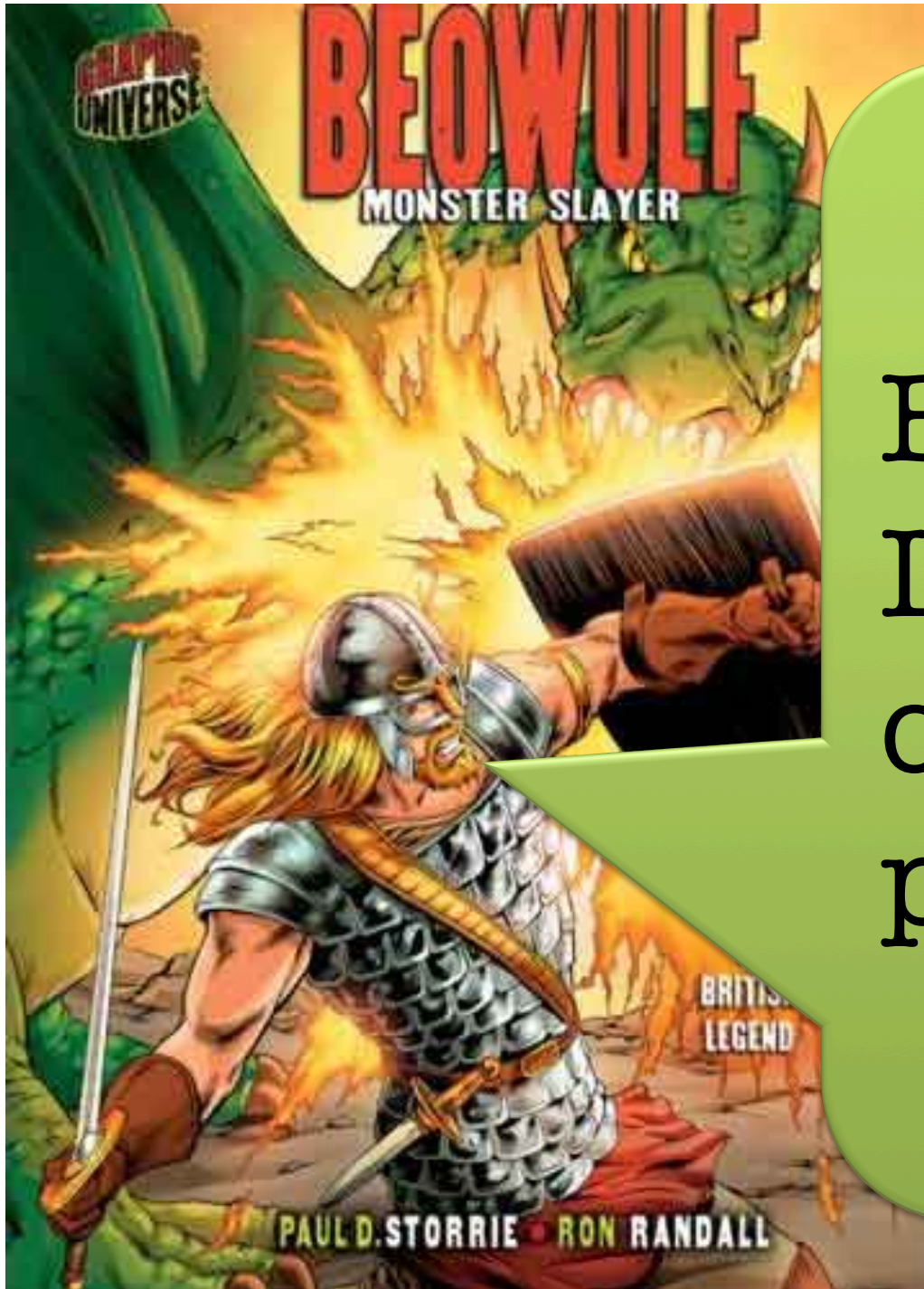
Why?

# Balance?



**TIME FOR RESEARCH  
& THINKING**

**TIME FOR  
TECHNOLOGY**



Big input,  
Little  
output,  
people.





# My Country Report!!!!!!!

By Kristin

Fontichiaro





# My Battle Report!!!!!!!

By Kristin

Fontichiaro





# My Mammal Report!!!!!!!

By Kristin

Fontichiaro





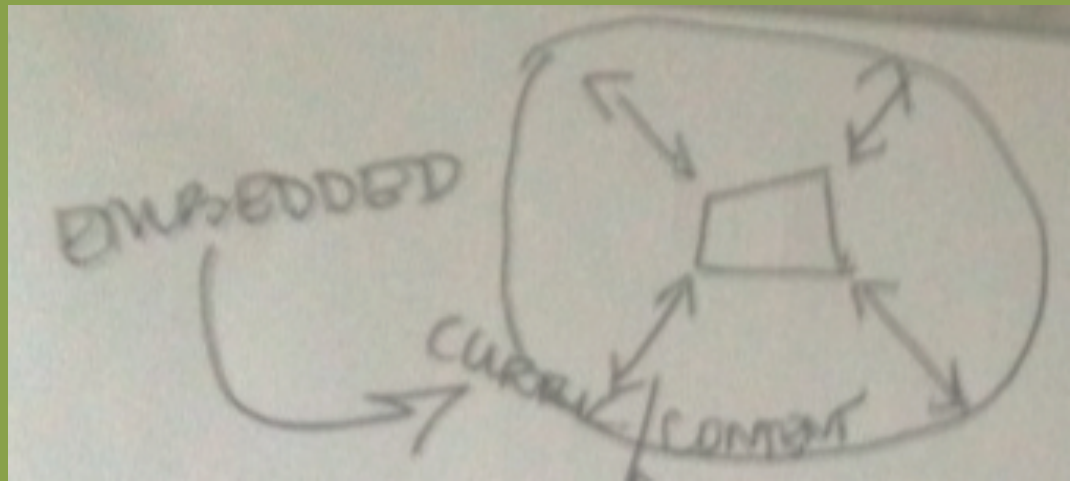
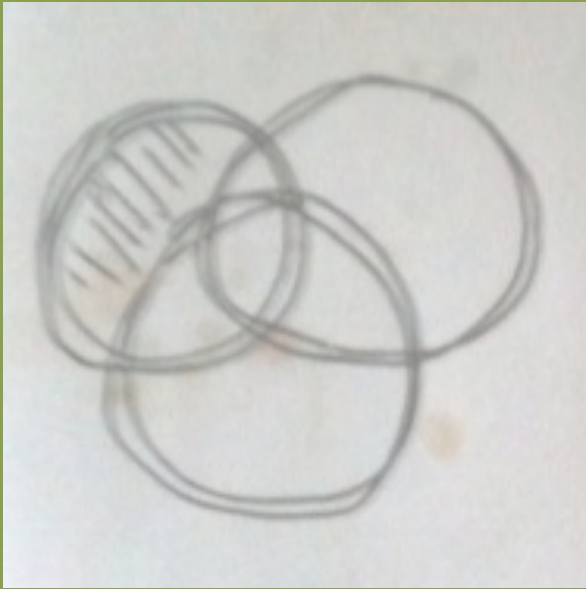
\* Bernajean Porter

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

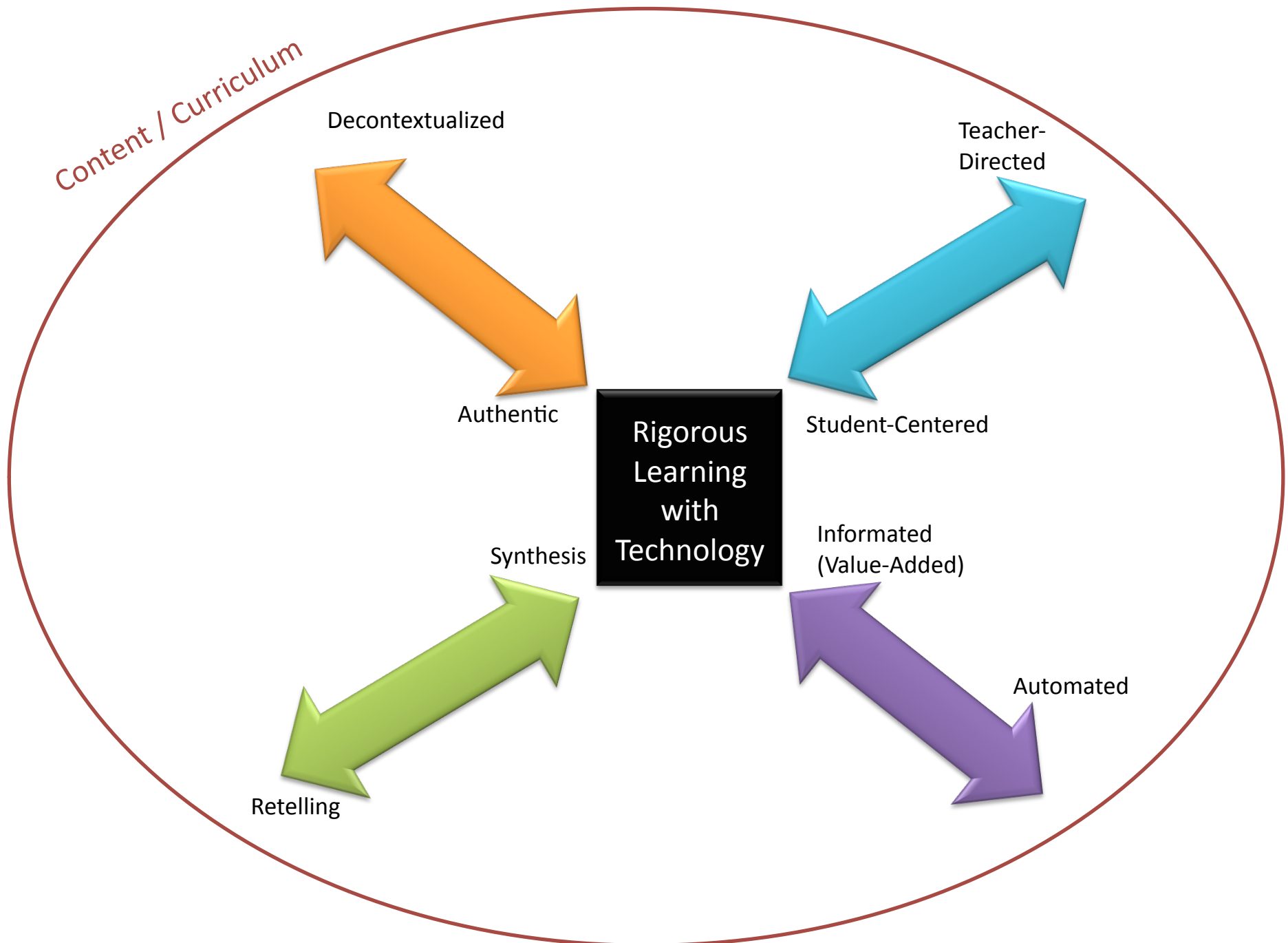
**You can't just  
push away  
the uncertainties;  
you have to  
push through  
them.”**

**-Jeff Stanzler**

**So I started pushing ....**



we  
swim  
in the  
pool  
of  
content  
- Raya



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





Rigorous  
Learning  
with  
Technology

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

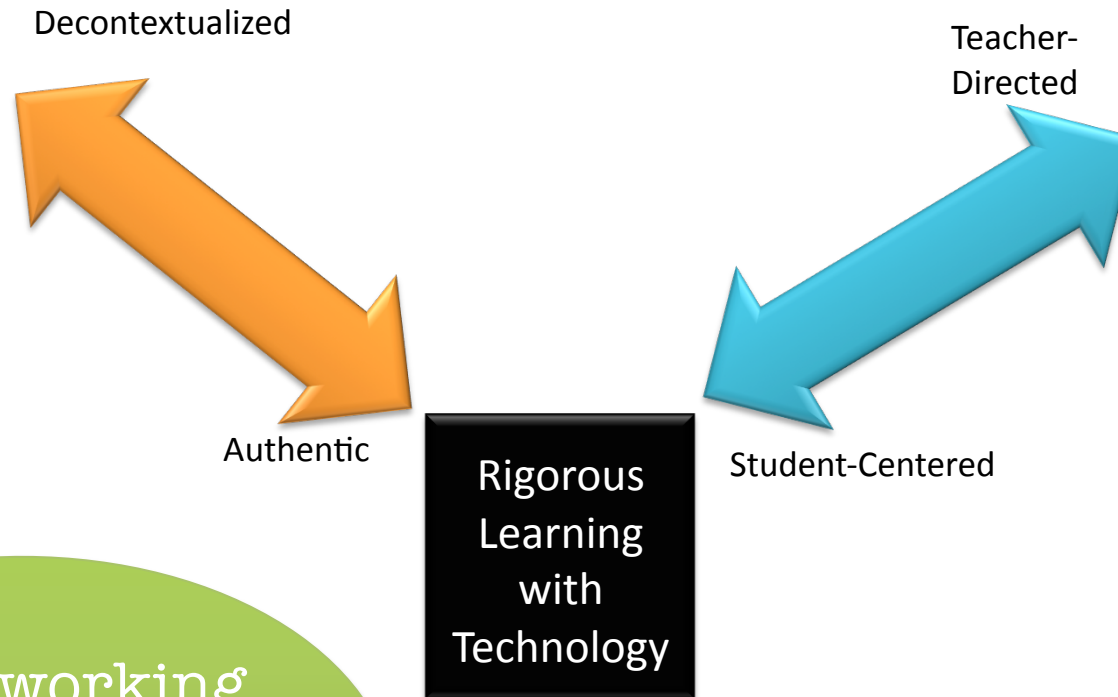
Decontextualized



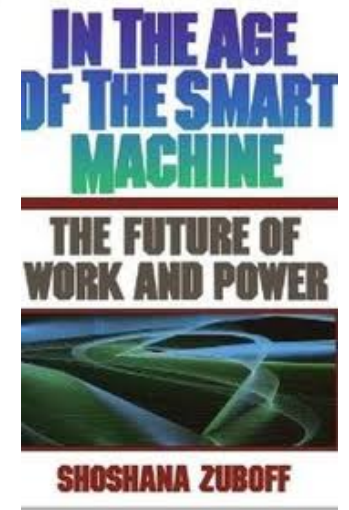
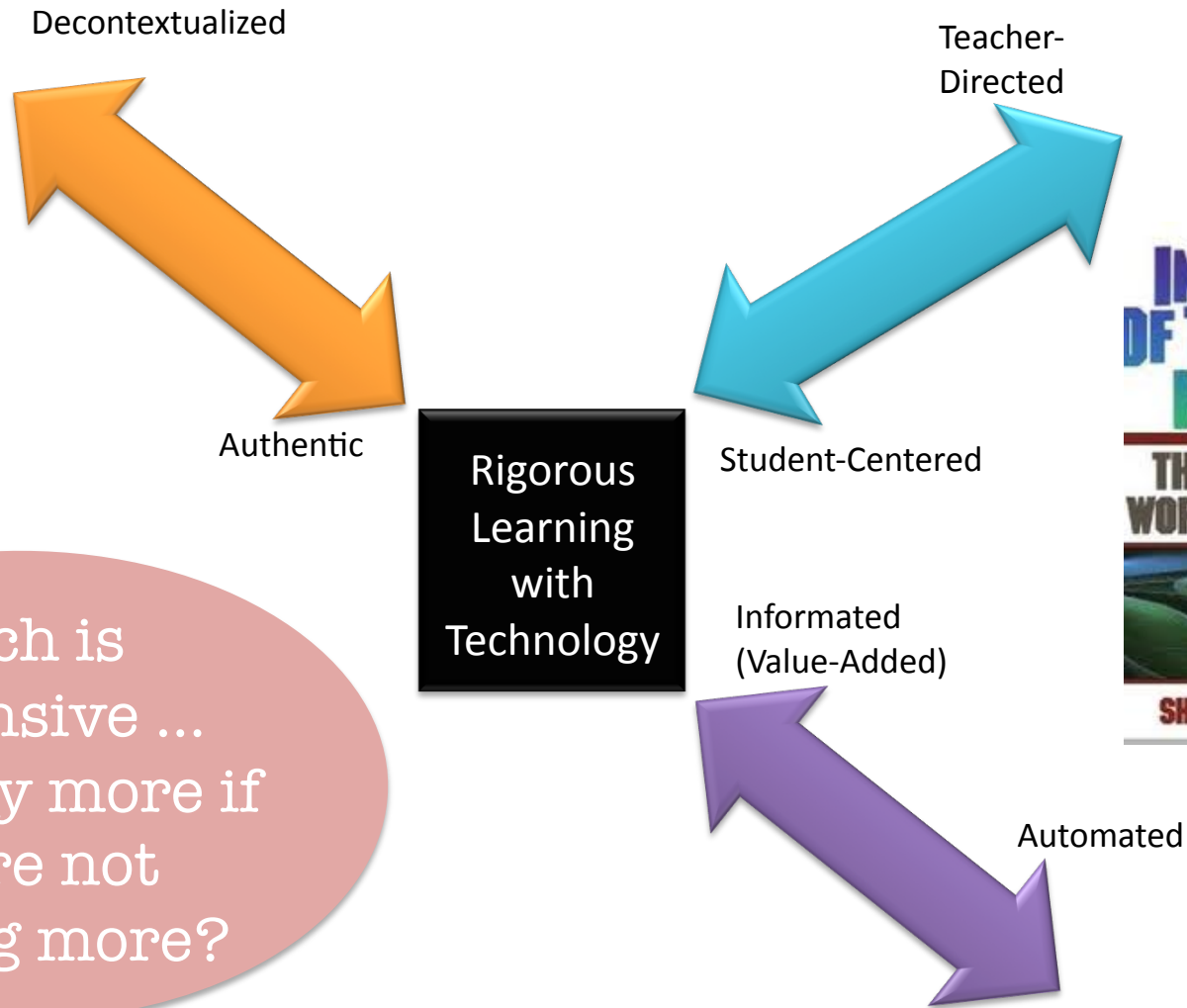
Authentic

Rigorous  
Learning  
with  
Technology

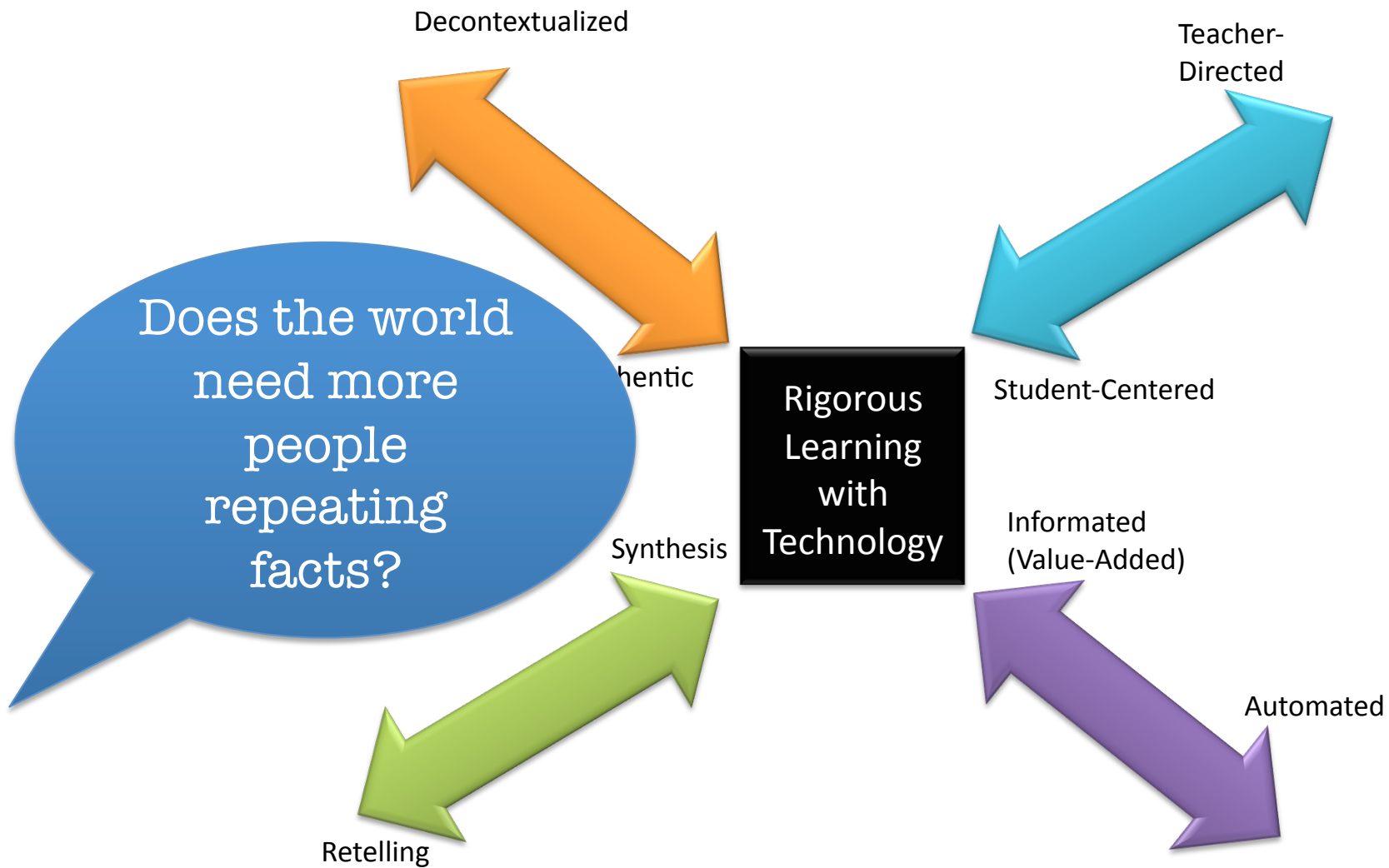
What's in it for  
me?  
How does this  
apply to me?



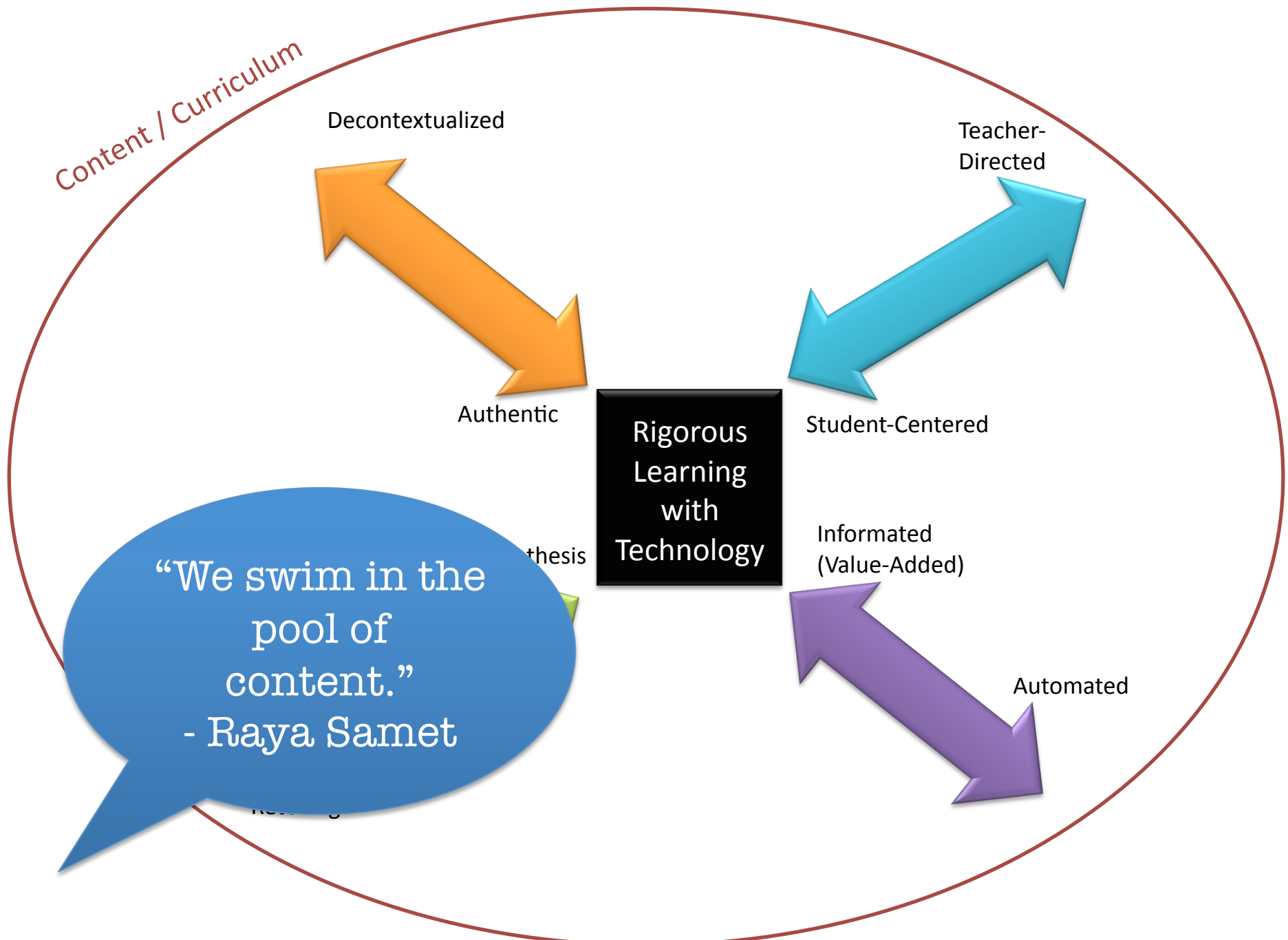
Who's working harder? Who decides what is important?



Tech is expensive ... why pay more if we're not getting more?



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



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# The Silent Partners

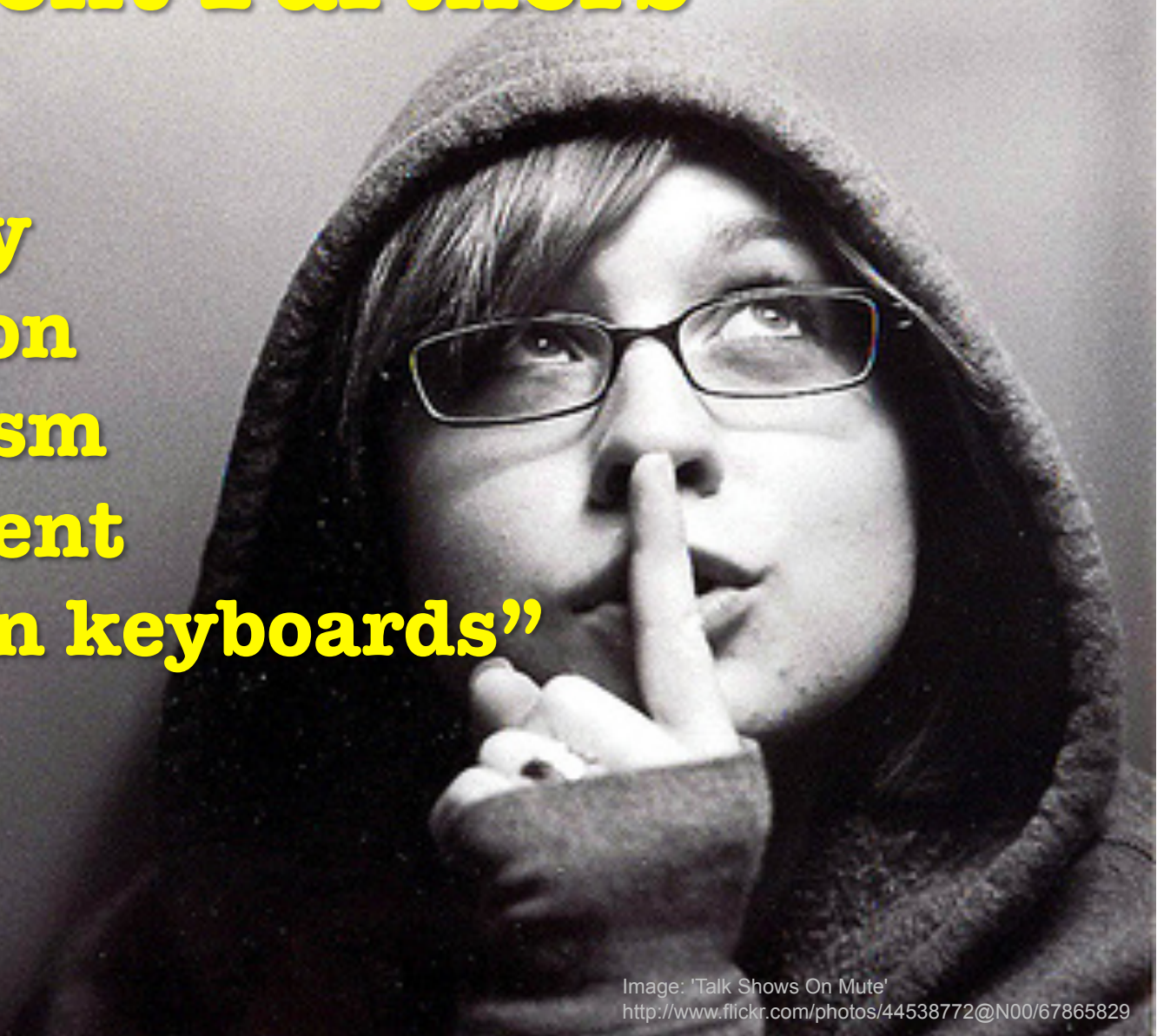
**Creativity**

**Motivation**

**Enthusiasm**

**Engagement**

**“Hands on keyboards”**





# Testing Our Lens: Student Work Samples





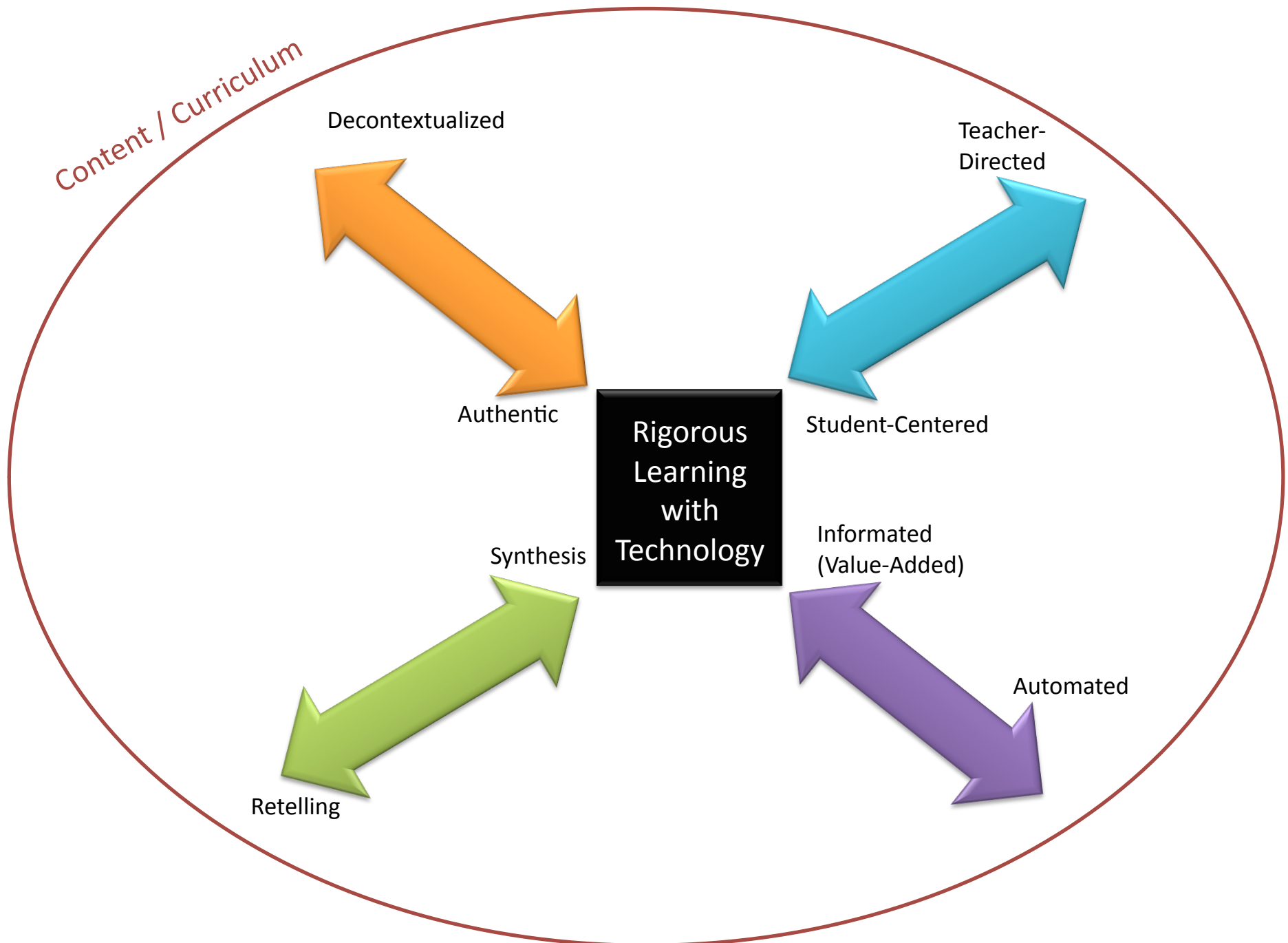
Recognize  
this  
Report?



[http://bit.ly/  
sofia-otter](http://bit.ly/sofia-otter)

<http://bit.ly/sofia-otter>





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



Glogster  
me, baby!



[http://bit.ly/  
watsons1963](http://bit.ly/watsons1963)

<http://bit.ly/watsonsl963>



!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
!!!!!!!!!!!!CLICK!!!!!!!!!!!!  
!!!!!!!!!!!!HERE!!!!!!!!!!!!  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

The Bombing  
happened at Sunday,  
15th September,  
1963. At The  
16th Baptist  
Church.

Check  
it  
out!!!!!!!

Addie Mae Collins,  
Carole Roberston, Denise  
Mcnaair, and Cynthia Wesley  
had all died the day of the  
bombing.



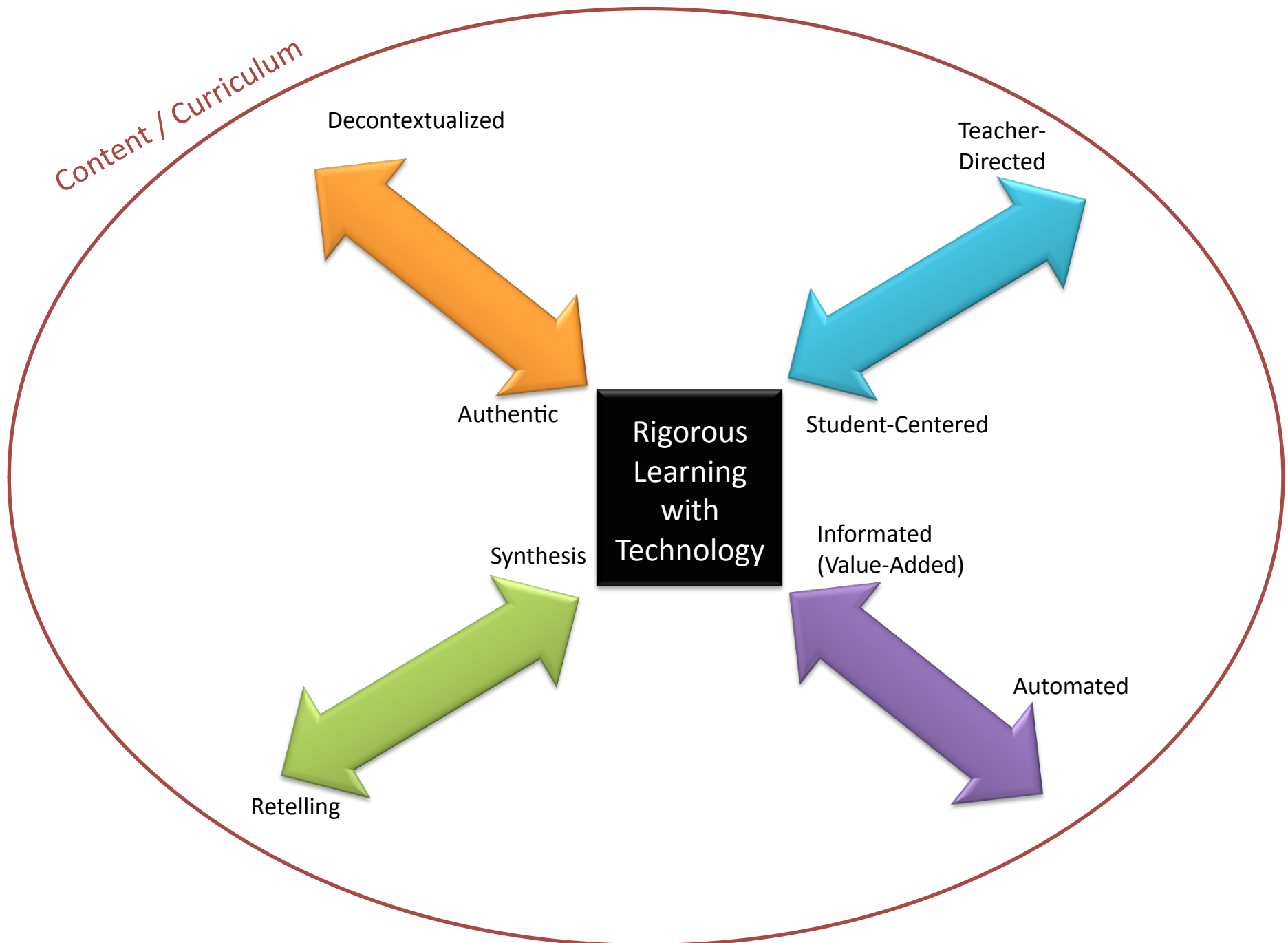
The explosion blew a hole in the  
church's rear wall, destroyed the  
back steps, and left intact only the  
frames of all but one stained-glass  
window.



Copyrighted material: copyright  
By the author of Newbery Award Winner *The Watsons*

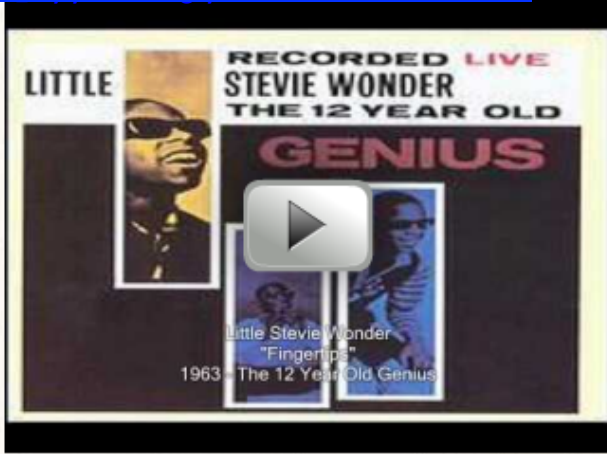
*The Watsons Go to  
Birmingham — 1963*  
Christopher Paul Curtis





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

<http://bit.ly/watsonsl963>



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*The Watsons Go to  
Birmingham — 1963*  
Christopher Paul Curtis



<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.

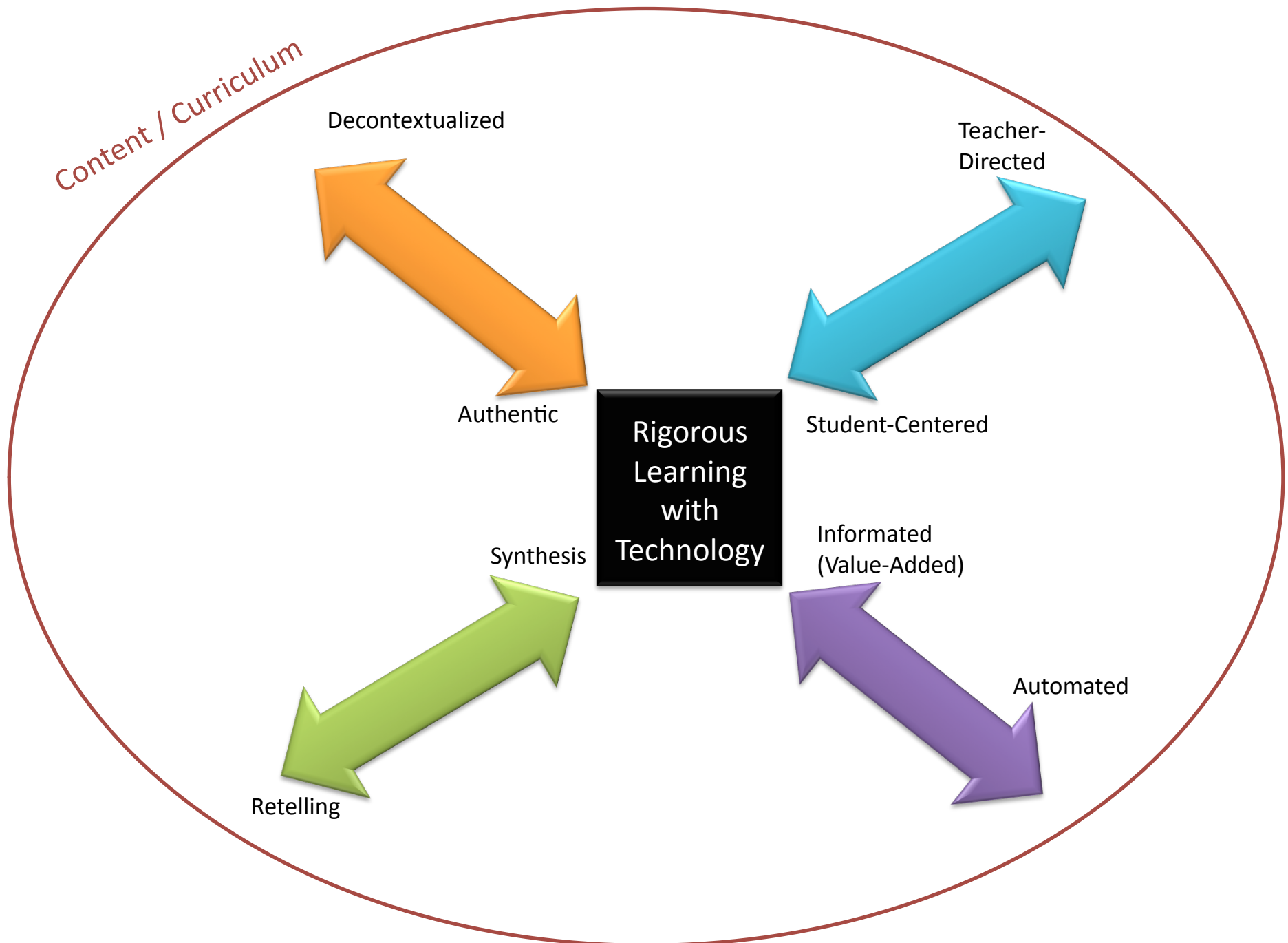
Check it out!!!!!!!!!!

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.








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

Image: 'Bonus time.'  
<http://www.flickr.com/photos/14816925@N00/43301272>

**BONUS  
TIME**





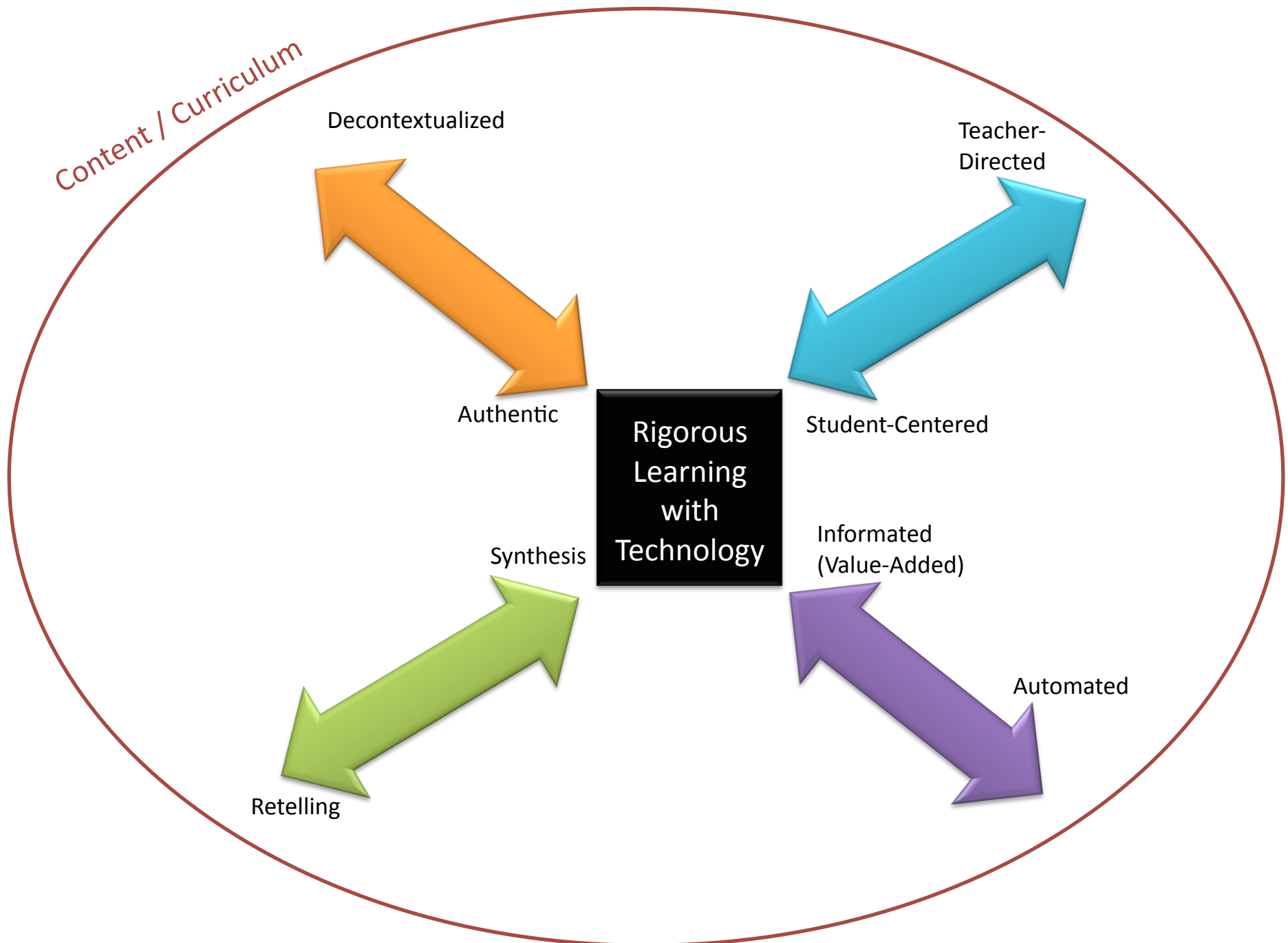
*Hamlet*  
goes to high  
school



[bit.ly/hPn588](http://bit.ly/hPn588)

[bit.ly/hPn588](http://bit.ly/hPn588)





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



Better Ingredients.  
Better Pi

**LEARNING.**

# Questions?

Kristin Fontichiaro

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