

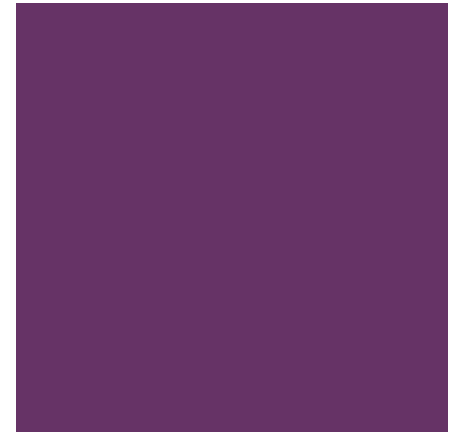


Transforming K-12 Education



**21st Century Skills
Infused with ICT Literacy**

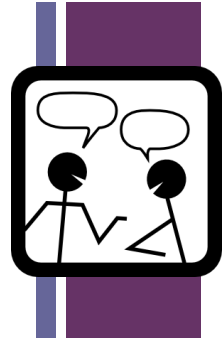
School Net South Africa ICT Conference



+ Background Information

- Classroom Teacher and Technology Director
- National Intel Senior Trainer and MS Peer Coach
- Partnership for 21st Century Skills Certified Affiliate
- CEO of Innovative Educator Consulting Corporation

+ Overview of presentation

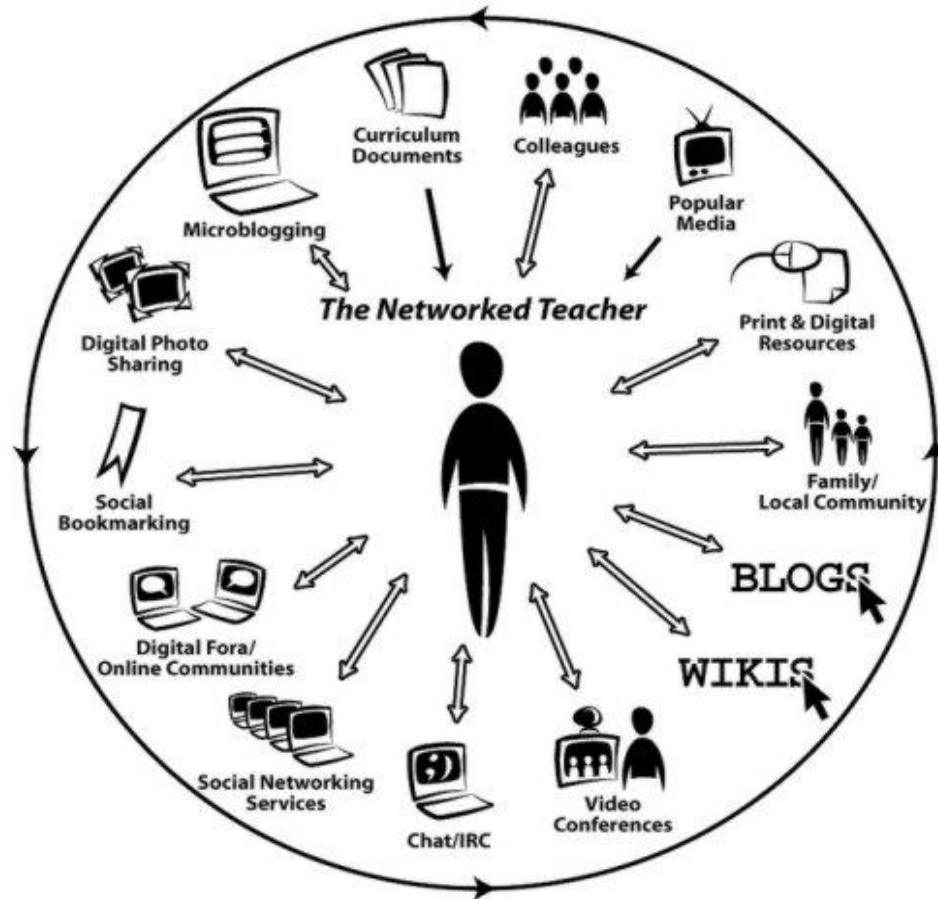
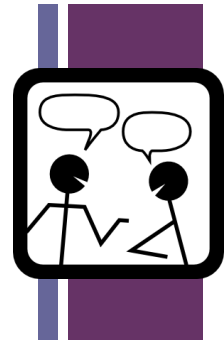


- Define what 21st century skills, ICT and assessments are and why they are needed
- Explore 21st century teaching and learning environments & tools throughout our session





Back Channel Chat Intro Activity



<http://todaysmeet.com/Naomi>

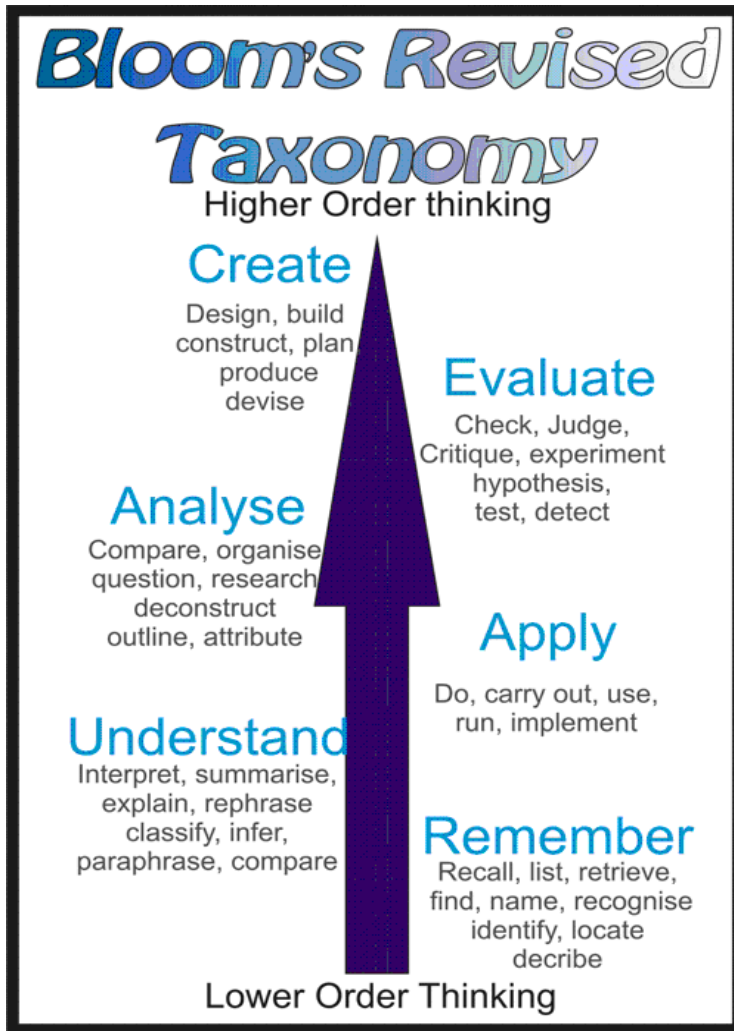
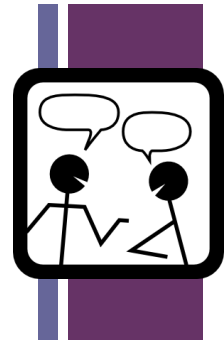


The Importance of SHARING



http://www.ted.com/talks/gel_gotta_share.html

+ Blooms Revised Taxonomy

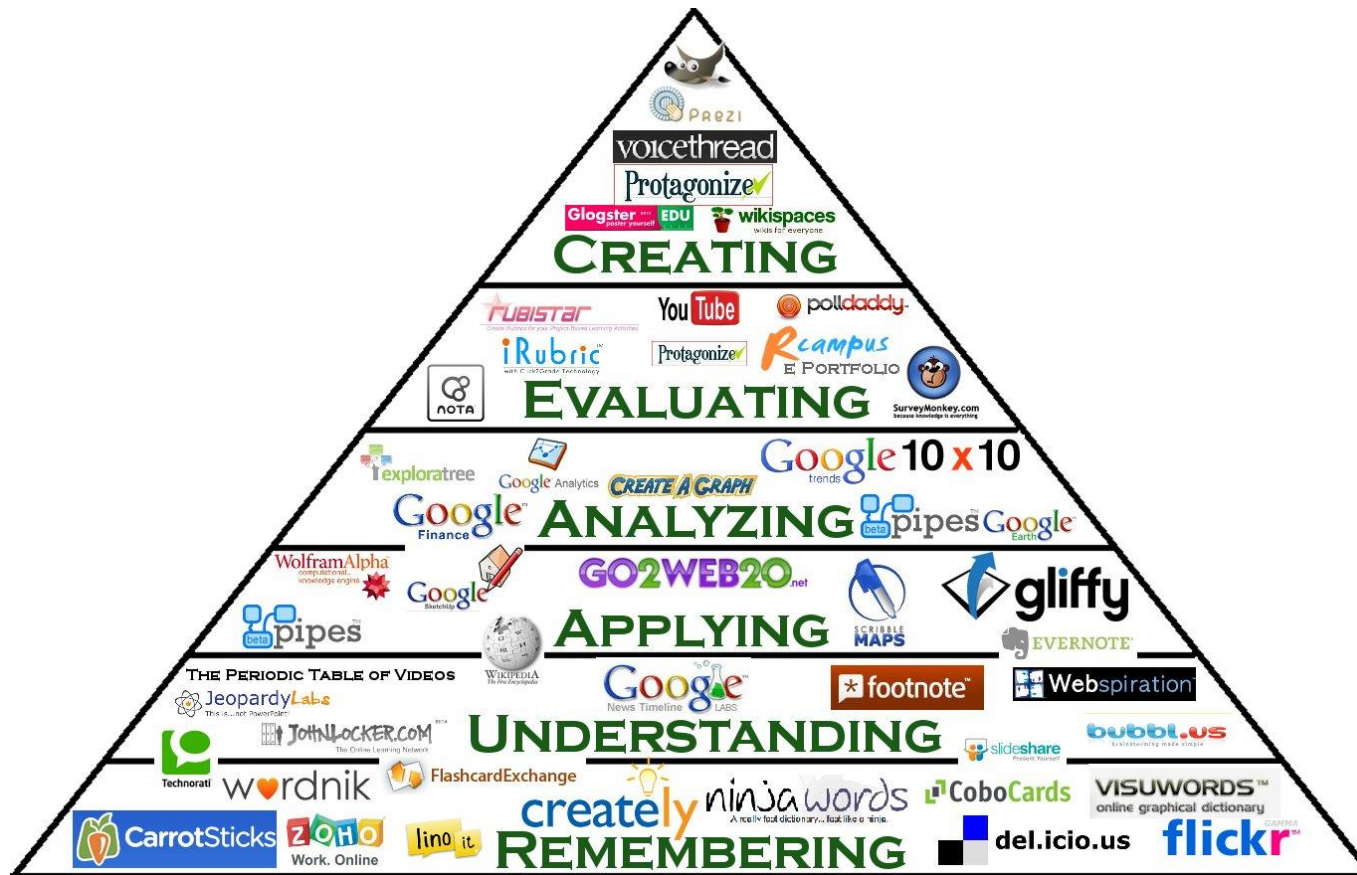
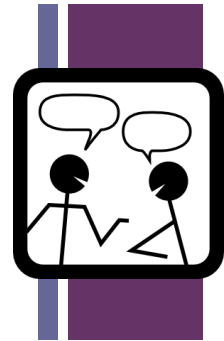


Tagxedo: <http://www.tagxedo.com>

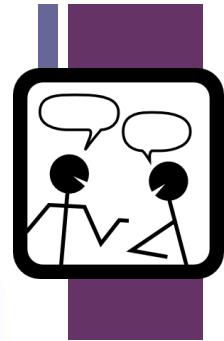
Wordle: www.wordle.net

WordItOut: <http://worditout.com>

+ Web 2.0 Blooms Pyramid



+ Bloomin' Google



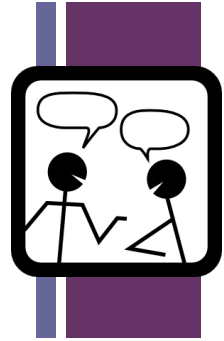
GOOGLE TOOLS TO SUPPORT BLOOM'S REVISED TAXONOMY

ASSEMBLED BY KATHY SCHROCK

CREATING	
EVALUATING	
ANALYZING	
APPLYING	
UNDERSTANDING	
REMEMBERING	

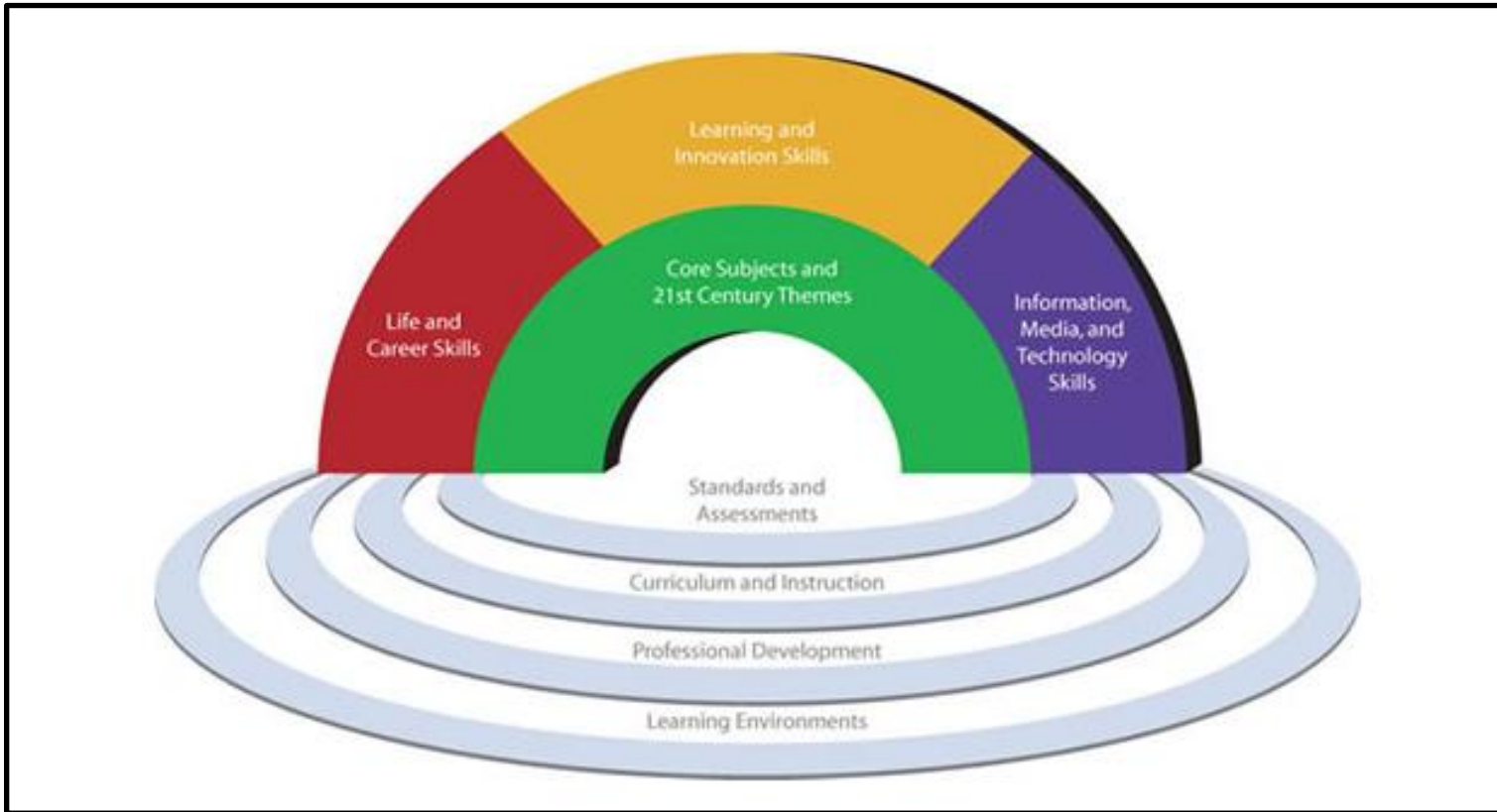
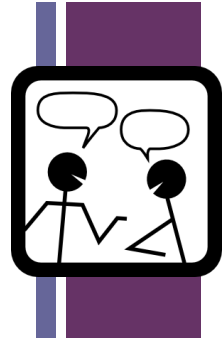
<http://kathyschrock.net/googleblooms>

+ Our Students of Today

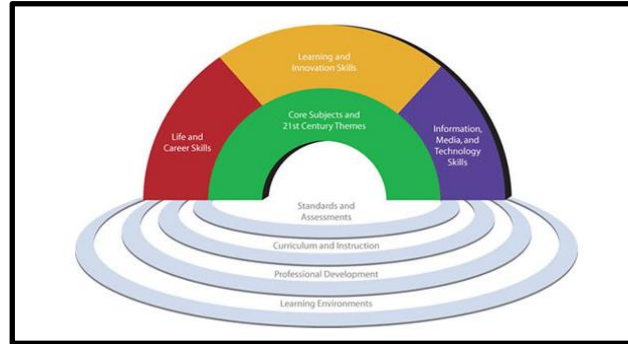


I Remember Intel Video: <http://www.youtube.com/watch?v=aWbVogqxGrs>

+ P21 Overview and Mile Guide



+ 21st Century Student Outcomes



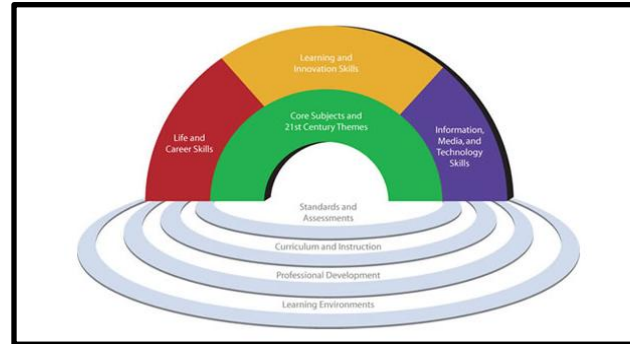
■ Core Subjects

- English, Reading or language arts, World languages, Arts, Mathematics, Economics, Science, Geography, History, Government and Civics

■ 21st Century Themes

- Global awareness, Financial, Economic business and Entrepreneurial literacy, Civic literacy, Health literacy, and Environmental literacy

+ 21st Century Student Outcomes



■ Learning and Innovation Skills

- Creativity and Innovation, Critical Thinking and Problem Solving, and Communication and Collaboration

■ Information, Media and Technology Skills

- Information Literacy, Media Literacy, ICT Literacy

■ Life and Career Skills

- Flexibility and Adaptability, Initiative and Self-Direction, Social and Cross Cultural Skills, Productivity and Accountability, and Leadership and Responsibility



Back Channel Chat Reflection



Today'sMeet

<http://todaysmeet.com/Naomi>

Listen.

Talk.

- Prompt: Share an online resource/tool you use to model collaboration in your classroom with students or adult learners.

What's your name?

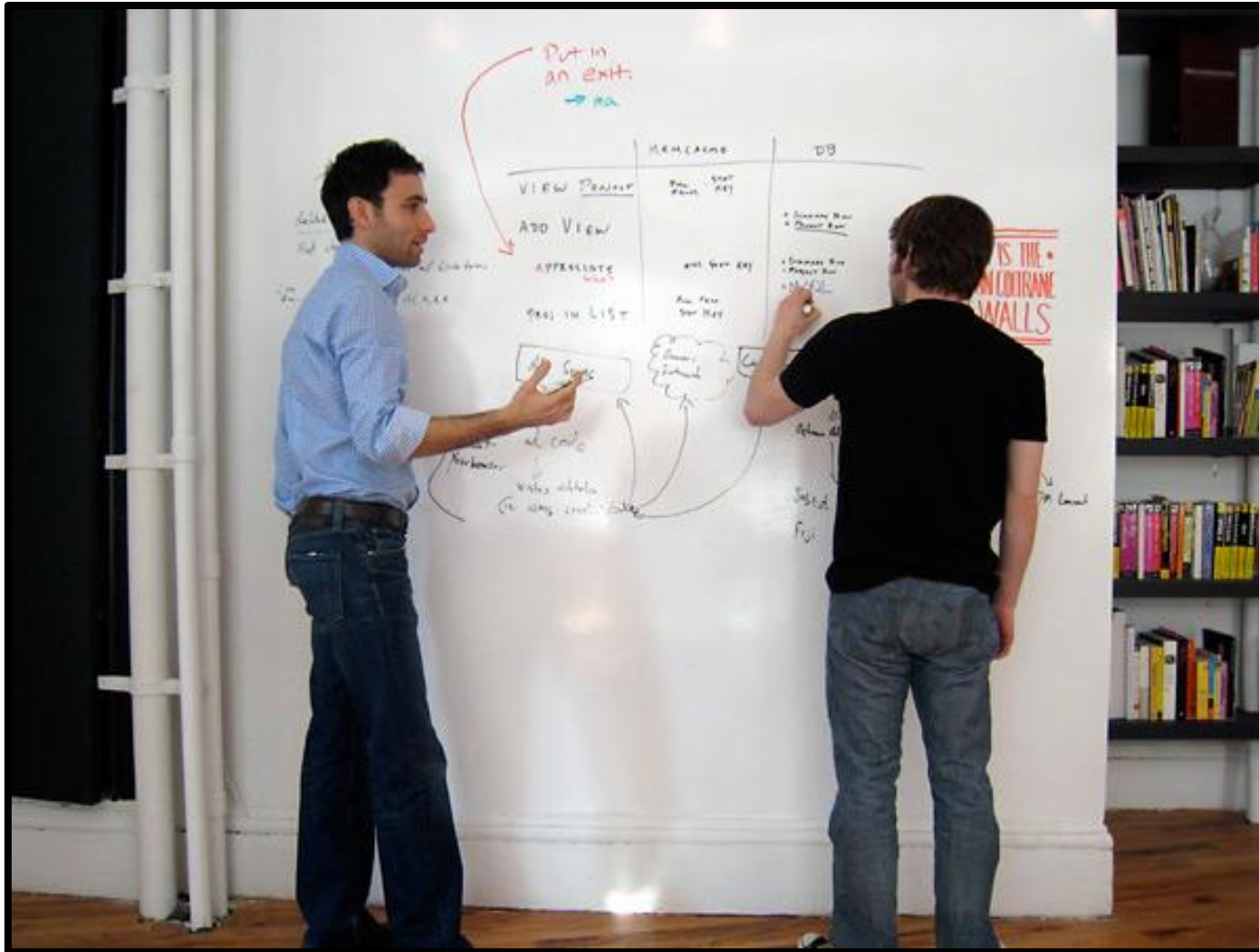
Join.

+ Where Do Good Ideas Come From?

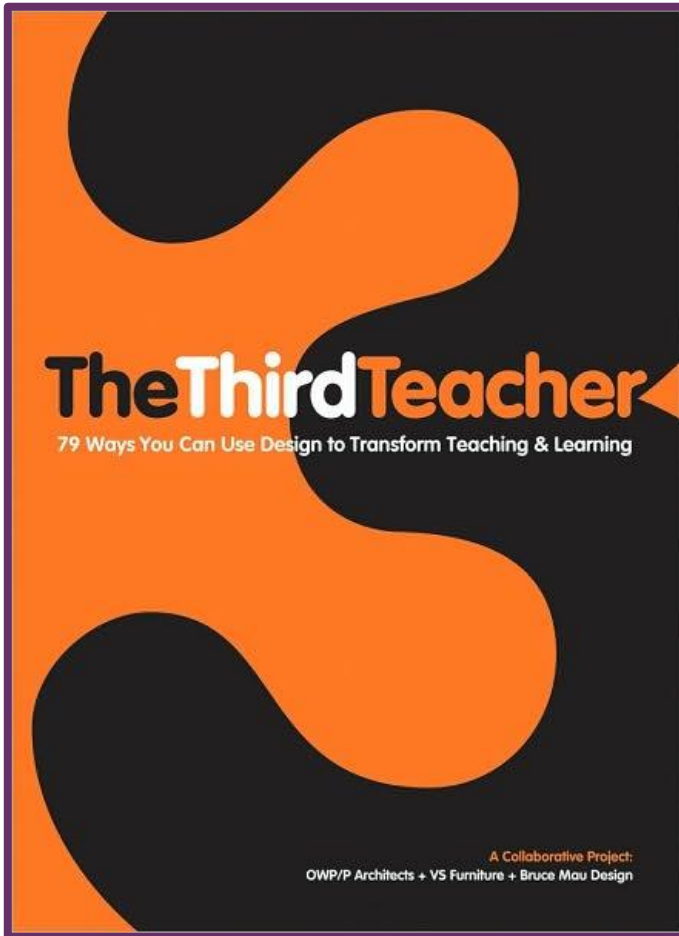
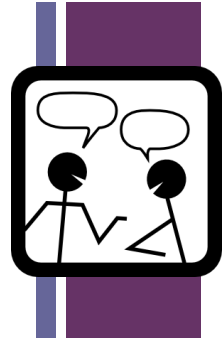


<http://www.youtube.com/watch?v=eNwMut3-zlY>

+ Idea Paint

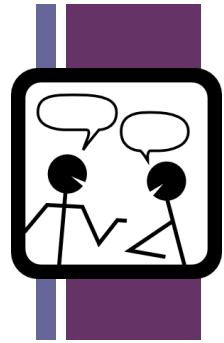


+ The Third Teacher & Learning Spaces





Transformation of Learning Spaces



The IDEA, A 21st Century Learning Space

On February 5, 2011, in Learning Spaces, by ryanbretag

13

27



Share



Tweet

The Innovation, Discovery, and Engagement Area (I.D.E.A) of [Glenbrook North High School](#) is a 21st Century learning space designed for all learners. Designed to foster a community of scholarly exchange and a culture of interdisciplinary connections, the I.D.E.A. provides multiple opportunities for learning and professional development.

Habits and Habitats: Introducing the IDEA

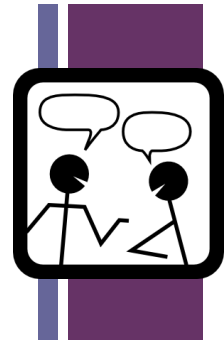


The intent of the I.D.E.A is to provide a 21st Century habitat for the development of 21st Century

<http://www.ryanbretag.com/blog/?p=2024>



Back Channel Chat Reflection



Today'sMeet

<http://todaysmeet.com/Naomi>

Listen.

How do you plan to incorporate one new element of a transformative learning space into your classroom teaching and learning environment this year?

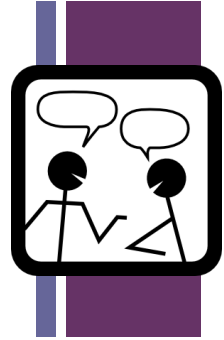
Talk.

What's your name?

Join.

+

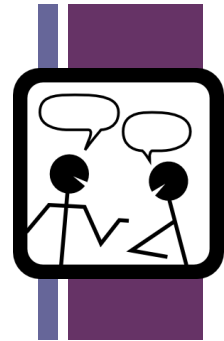
Intel Education Free Resources



■ <http://www.intel.com/teachers>



Intel Teach Elements Courses



Featured Education Tools and Resources



Visual Ranking Tool

Identify and refine criteria for assigning a ranking to a list. Then debate differences, reach consensus, and organize ideas.

» [Visual Ranking](#)



Assessing Projects

Develop or create your own strategies for student-centered assessments.

» [Assessing Projects](#)



Seeing Reason Tool

Investigate relationships in complex systems, and create maps that communicate understanding.

» [Seeing Reason](#)



Intel® Teach Elements Professional Development

Take a free online course: explore 21st century learning concepts for your classroom.

» [Leadership, Collaboration, Assessment, and Project Based-Approaches](#)



Showing Evidence Tool

Construct well-reasoned arguments that are supported by evidence, using a visual framework.

» [Showing Evidence](#)



Help Guide

Find strategies to promote technology literacy using just-in-time instructions

» [Help Guide](#)



Designing Effective Projects

Gather ideas from a collection of exemplary unit plans, and design your own technology-rich teaching plan.

» [Designing Effective Projects](#)



Teachers Engage Community

Educators are invited to join an Online Community focused on core topics of Intel® Teach courses.

» [Teachers Engage Community](#)



The Journey InsideSM

Give your students a fascinating look inside computers with this collection of interactive online Lessons.

» [The Journey InsideSM](#)



Technology Literacy

Cultivate technology literacy and digital citizenship with this curriculum for middle-school students.

» [Technology Literacy](#)



Collaboration in the Digital Classroom



TAKE AN INTEL® TEACH ELEMENTS COURSE NOW

Educational Leadership in the 21st Century >

How can education leaders support teacher effectiveness to improve student achievement? Explore and discuss school leadership in our students' 21st century world. See examples of best practices, examine your own leadership behaviors, and develop strategies to better support your teachers.



[View the Syllabus \(PDF\)](#)

Assessment in 21st Century Classrooms >

Take an in-depth look at assessment that meets the needs of 21st century learners. See how assessment strategies can benefit your teaching practices and students' learning. Learn how to plan, develop, and manage student-centered assessment.



[View the Syllabus \(PDF\)](#)



Collaboration in the Digital Classroom >

See collaboration in action through classroom examples, use a *Collaboration Framework* for planning digital collaboration activities, explore many online collaborative tools, and understand how to support and manage ethical, safe, and legal online collaboration.



[View the Syllabus \(PDF\)](#)

Project-Based Approaches >

Using specific classroom scenarios, explore characteristics and benefits of Project-Based Learning (PBL). See examples of projects, learn the steps to planning a project, understand how to assess projects, and develop critical skills for managing and implementing projects.



[View the Syllabus \(PDF\)](#)

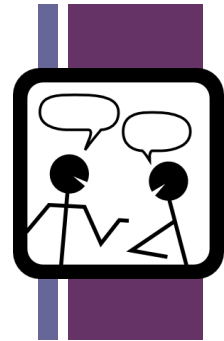
+ Collaboration Resources



A screenshot of the Intel Teach Elements website interface. The page title is "Intel® Teach Elements: Collaboration in the Digital Classroom". The navigation bar includes "Orientation", "ACTION PLAN", "RESOURCES", "GLOSSARY", "HELP", and "ABOUT". The "RESOURCES" menu is highlighted with a yellow box. Below the navigation bar, a "Resources" pop-up window is open, listing various tool categories. The "Module 3" category is highlighted with a yellow box and has a yellow arrow pointing to it. Under "Module 3", "Choosing the Best Tool for the Job" and "Online Collaborative Tools" are also highlighted with yellow boxes and have yellow arrows pointing to them. The background of the website shows a classroom setting with a laptop on a desk and a speaker icon on the left side of the page.



Collaboration Master Tool List



The screenshot shows the Intel Teach Elements website interface. At the top, the Intel logo is followed by the text "Intel® Teach Elements: Collaboration in the Digital Classroom". Below this, there is a navigation bar with links for "ACTION PLAN", "RESOURCES", "GLOSSARY", "HELP", and "ABOUT". The "RESOURCES" link is highlighted with a yellow box. Below the navigation bar, a "Welcome, A1: Welcome to Orientation" message is displayed. A "Resources" pop-up window is open, showing a list of tool categories. The "Online Collaborative Tools" category is highlighted with a yellow box and a yellow arrow pointing to it. The background of the website shows a classroom setting with a laptop on a desk.

Intel® Teach Elements: Collaboration in the Digital Classroom

Orientation

▶ ACTION PLAN ▶ **RESOURCES** ▶ GLOSSARY ▶ HELP ▶ ABOUT

Welcome, A1: Welcome to Orientation

Welcome to C

Welcome to Collabor

This interactive e-lear

collaboration using te

collaboration benefits

century thinking skills

prepare them for the

manage collaboration

tools to enhance the l

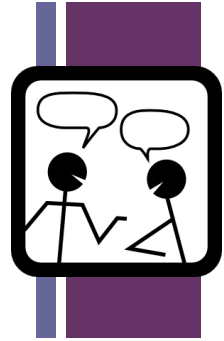
Click **Next** (the forwa

continue to **Lesson 1**

Resources

- ⊕ Action Plans
- ⊕ Module 1
- ⊕ Module 2
- ☐ Module 3
 - Audio Creation Tools
 - Choosing the Best Tool for the Job
 - Collaborative Tool Access Checklist
 - Collaborative Writing Tools
 - Communication and Messaging Tools
 - Data Collection Tools
 - Online Collaborative Tools**
 - Online Tool Tips for Students
 - Project Management Tools
 - Research and Search Tools

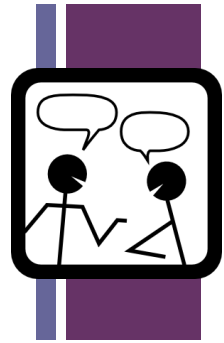
+ Rules for the 21st Century Classroom



Rules for 21st Century Classrooms

+

21st Century Teaching & Learning Environments & Tools



Blended Learning



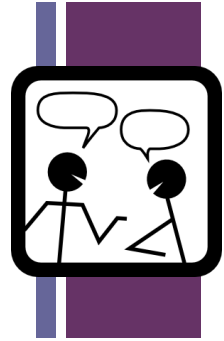
21st Century Skills



Assessments



Free Assessment Resources

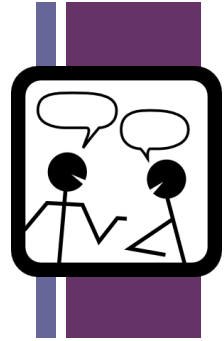


- Assessment in the 21st Century Classroom
<http://www.intel.com/education/elements>
- Assessing Projects:
<http://educate.intel.com/en/AssessingProjects>
- ISTE Learning: <http://istelearning.org>



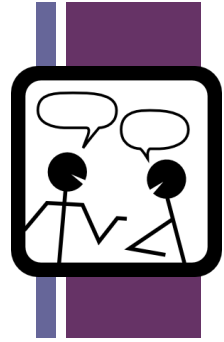


Innovative Teaching & Learning Models to Bring Back to Your District



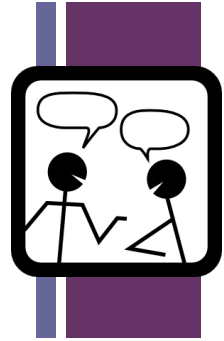
- What are your new ideas “big aha’s” you gained today?
- How will you change your instructional approach or modeling of 21st leadership and assessments over the next six months to inspire learning with your staff and/or students?
- Why is it important for your students to take ownership in their learning and how will you encourage this?

+ Ten Years of Technology Video



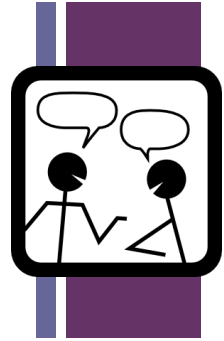
Ten Years: Tech Video <http://www.box.net/shared/8u8ee1hh6m>

+ Research and References



- Cool Tools for Schools <http://cooltoolsforschools.wikispaces.com>
- Go 2 Web 2.0 <http://www.go2web20.net>
- Innovative Educator 2.0 <http://blog.innovativeeducator.us>
- ISTE NETS/Profiles: <http://www.iste.org> & <http://istelearning.org>
- P21 – <http://www.21stcenturyskills.org>
- The 21 Things <http://21things.weebly.com>
- I Remember Intel Video
<http://www.youtube.com/watch?v=aWbVogqxGrs&feature=related>

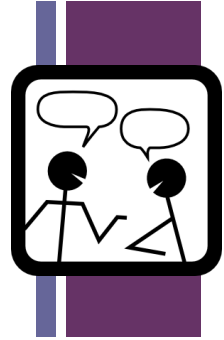
+ Video Clip Resources



- 21st Century Skills:
http://www.youtube.com/watch?v=BHiby3m_RyM
- Do Schools Kill Creativity?
http://www.ted.com/talks/ken_robinson_says_schools_kill_creativity.html
- Empowering the 21st Century Superintendent:
<http://superintendentempower.org>
- Learning to Change:
<http://www.youtube.com/watch?v=tahTKdEUAPk>
- Rules for 21st Century Classroom: <http://bit.ly/3Dqwmng>
- Naomi's Handouts: <http://www.box.net/naomiharm>



Naomi Harm's Contact Info



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- Skype: InnovativeEducator
- Twitter: nharm
- BoxNet: <http://box.net/naomiharm>
- Trunkly: <http://trunk.ly/nharm>