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

Naomi Harm  ~ Innovative Educator Consulting ~  Blog: http://blog.innovativeeducator.us  Email: innovativeeducator@gmail.com
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

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Blooms Revised Taxonomy

- **Create**: Design, build, construct, plan, produce, devise
- **Evaluate**: Check, Judge, Critique, experiment, hypothesis, test, detect
- **Analyse**: Compare, organise question, research, deconstruct, outline, attribute
- **Apply**: Do, carry out, use, run, implement
- **Understand**: Interpret, summarise, explain, rephrase, classify, infer, paraphrase, compare
- **Remember**: Recall, list, retrieve, find, name, recognise, identify, locate, describe

Lower Order Thinking

- Higher Order Thinking

Tagxedo: [http://www.tagxedo.com](http://www.tagxedo.com)
Wordle: [www.wordle.net](http://www.wordle.net)
WordItOut: [http://worditout.com](http://worditout.com)
Web 2.0 Blooms Pyramid
Bloomin’ Google

http://kathyschrock.net/googleblooms

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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

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

Listen.

Talk.

What's your name?

Join.

http://todaysmeet.com/Naomi
Where Do Good Ideas Come From?

http://www.youtube.com/watch?v=eNwMut3-z1Y

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The Third Teacher & Learning Spaces
The IDEA, A 21st Century Learning Space

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

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

TodaysMeet

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.

http://todaysmeet.com/Naomi

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Intel Education Free Resources

http://www.intel.com/teachers

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## Featured Education Tools and Resources

<table>
<thead>
<tr>
<th>Tool Name</th>
<th>Description</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Ranking Tool</td>
<td>Identify and refine criteria for assigning a ranking to a list. Then debate differences, reach consensus, and organize ideas.</td>
<td><a href="https://www.intel.com/teachers/visual-ranking-tool">https://www.intel.com/teachers/visual-ranking-tool</a></td>
</tr>
<tr>
<td>Showing Evidence Tool</td>
<td>Construct well-reasoned arguments that are supported by evidence, using a visual framework.</td>
<td><a href="https://www.intel.com/teachers/showing-evidence-tool">https://www.intel.com/teachers/showing-evidence-tool</a></td>
</tr>
<tr>
<td>Designing Effective Projects</td>
<td>Gather ideas from a collection of exemplary unit plans, and design your own technology-rich teaching plan.</td>
<td><a href="https://www.intel.com/teachers/designing-effective-projects-tool">https://www.intel.com/teachers/designing-effective-projects-tool</a></td>
</tr>
<tr>
<td>The Journey InsideSN</td>
<td>Give your students a fascinating look inside computers with this collection of interactive online lessons.</td>
<td><a href="https://www.intel.com/teachers/the-journey-insideSN">https://www.intel.com/teachers/the-journey-insideSN</a></td>
</tr>
</tbody>
</table>

## 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

## Tools for Educators

- Assessing Projects
- Help Guide
- Teachers Engage Community
- Technology Literacy
Collaboration in the Digital Classroom

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)

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)

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)

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

http://www.intel.com/teachers
Rules for the 21st Century Classroom

Rules for 21st Century Classrooms

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21st Century Teaching & Learning Environments & Tools

21st Century Skills

Blended Learning

Assessments
Free Assessment Resources

- Assessment in the 21st Century Classroom
  http://www.intel.com/education/elements

- Assessing Projects:

- ISTE Learning:  http://istelearning.org

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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](http://www.box.net/shared/8u8ee1hh6m)

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Research and References

- Go 2 Web 2.0 [http://www.go2web20.net](http://www.go2web20.net)
- Innovative Educator 2.0 [http://blog.innovativeeducator.us](http://blog.innovativeeducator.us)
- P21 – [http://www.21stcenturyskills.org](http://www.21stcenturyskills.org)
- The 21 Things [http://21things.weebly.com](http://21things.weebly.com)
- I Remember Intel Video [http://www.youtube.com/watch?v=aWbVogqxGrs&feature=related](http://www.youtube.com/watch?v=aWbVogqxGrs&feature=related)

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Video Clip Resources

- **21st Century Skills:**
  [http://www.youtube.com/watch?v=BHiby3m_RyM](http://www.youtube.com/watch?v=BHiby3m_RyM)

- **Do Schools Kill Creativity?**

- **Empowering the 21st Century Superintendent:**
  [http://superintendentempower.org](http://superintendentempower.org)

- **Learning to Change:**
  [http://www.youtube.com/watch?v=tahTKdEUAPk](http://www.youtube.com/watch?v=tahTKdEUAPk)


- **Naomi’s Handouts:** [http://www.box.net/naomiharm](http://www.box.net/naomiharm)
Naomi Harm’s Contact Info

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- Twitter: nharm
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