Colette Cassinelli email: *colette@edtechvision.org*   blog: *http://www.edtechvision.org*
NOTE: *This handout is from https://edtechvision.wikispaces.com/ITSC*

Embrace 21st century strategies to create an instructional learning environment that moves away from teaching isolated computer skills towards an integrated thematic approach. Come learn how you can combine everyday productivity tools with Web 2.0 to support curriculum integration and collaboration.

The National Technology Standards for Students (NETS*S *http://cnets.iste.org/students/s_stands.html*) recommends that educators establish new learning environments that provide real world opportunities for students to utilize current information and technology resources (ISTE, 2000).

According to The American Youth Policy Forum (*http://www.aypf.org/* - 2000) instruction in today's high schools must change. Disengagement from the learning process is a widespread problem in high schools as students do not perceive how lessons are relevant to their lives.

The American Youth Policy Forum reports that lecture style classes continue to dominate classroom instruction and content is divorced from the real world. Schools need to embrace new strategies for learning based on current research of how students learn, implement effective uses of technology in the classroom, and develop "21st Century Skills" while maintaining a rigorous academic curriculum (Burkhardt et al., 2003 *http://www.ncrel.org/engauge*).

It takes vision and planning to engage students in authentic learning experiences. Teachers must identify which instructional strategies are most effective and understand how to infuse technology into lessons with real world applications.

Instead of asking the question "What technology skills must students have to face the 21st century?" should we not be asking "What thinking and literacy skills must students have to face the 21st century?" These skills are not tied to any particular software or technology-type, but rather aim to provide students with the thinking skill and thus the opportunity to succeed no matter what their futures hold."
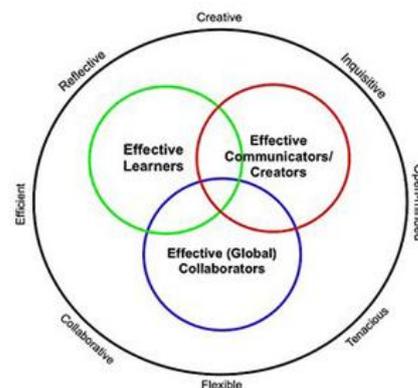

What is the role of technology in 21st century learning?

Justin Medved http://www.medagogy.edublogs.com/ , Dennis Harter http://dharter.edublogs.org/

Curriculum is designed from the best practice approaches to teaching and learning found in Understanding by Design (*http://www.authenticeducation.org/ubd.html*)

The Essential Questions for the 21st Century Learner are:
How do you know information is true? How do you communicate effectively? What does it mean to be a global citizen? How do I learn best? How can we be safe?

These questions speak to thinking, critically evaluating, analyzing, and communicating. They emphasize the value in responsible behavior and knowing yourself as a learner. *http://newliteracy.wikispaces.com/*

Career Unit - Based on John Holland's six personality traits
https://edtechvision.wikispaces.com/ITSC

Goals: critically evaluating, analyzing, communication

Work Samples:
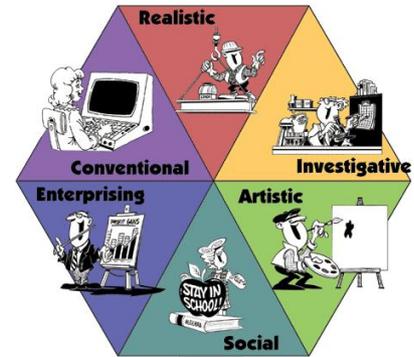   Table of Holland Traits (Word)
    Social Jobs Earnings (Excel)
    Career Bookmarks (Del.icio.us - bookmarks)
    Photos of Career Fair and computer class (Flickr)
    Artistic Jobs photoshow

Career Resources:
    Career Unit plan using UbD (Understanding by Design structure)
    The Career Interests Game (University of Missouri)
    Sample Self Assessment Exercise
    Career Pathfinder

Lunch Nutrition and Recycling Unit
https://edtechvision.wikispaces.com/ITSC

Goals: analyzing, communication, evaluating

Work Samples
    Google shared spreadsheet for data collection
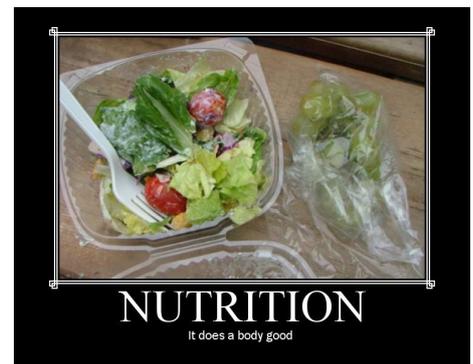   Motivational posters of lunches (right -->) from Flickr and
    http://www.bighugelabs.com
    Lunch waste recycling poster - (with real lunch photos)
    Lunch Photo Assignment
    Comparing Ideal and Actual Lunches (Excel)
    Nutrition letter | House Bill Letter (mail merge)
    House Bill podcast | remixed as Voicethread Audio edited with Audacity

NUTRITION
It does a body good

Nutrition / Waste Recycling Resources
    Nutritious Lunch ideas
    http://www.wastefreelunches.org/
    Reuse Recycling = Waste Reduction (pdf)

Other Classroom Activities:
https://edtechvision.wikispaces.com/ITSC

    TOP 100 TOOLS FOR LEARNING 2007 - http://c4lpt.co.uk/recommended/toolbox2007.html

    Valiant Pride: New student edition - a newspaper that my students designed for new incoming students
    Samples: pg 1 | pg 2 | pg3 | pg4 | pg5| pg6 | pg7 | pg8

    Search Engine Extravaganza - PowerPoint presentations to teach our school community about unique
    search engines   Meta Search Engines

BE SAFE ONLINE! Projects made by students to discuss online safety (including chat rooms, cyber bullying, online profiles, photo sharing, etc)

      Wiki to store document sources used in projects

      Samples of projects made on blogs, Flickr, and Google presentations (work in progress)

Curriculum Review Quizzes - Note: action buttons and hyperlinks do not work on slideshare - you must download the PowerPoint first

      Grendel Quiz | US History test review| Biology Quiz uploaded to Slideshare.net (can embed the shows on a wiki or webpage

      Global Studies Quiz uploaded to Google presentations (can embed the shows on a wiki or webpage or you can invite others to view presentation and display a CHAT window during the presentation)

Mission Possible: Web 2.0 - a class wiki to explore new Web 2.0 tools (work in progess)

Peace Day 2007 video

Note: Some of the lessons in this session are based on activities that I designed for my Action Research Project for my MA in Educational Technology from Pepperdine University. Three complete thematic units are located at http://cadres.pepperdine.edu/ar/c9/Cassinelli/arp.htm

---

Works Cited

American Youth Policy Forum http://www.aypf.org/
Best Jobs for the 21st Century, 4th Edition by Michael Farr. ©2006 JIST Publishing, Inc.

Curriculum 2.0
http://newliteracy.wikispaces.com/http://newliteracy.wikispaces.com/http://newliteracy.wikispaces.com/

enGauge 21st Century Skills: Literacy in the Digital Age (Burkhardt, G., Monsour M., Valdez, G., Gunn, C., Dawson, M., Lemke, C., et al., 2003) North Central Regional Educational Laboratory and the Metiri Group, http://www.ncrel.org/engauge

National Educational Technology Standards for Students (NETS*S)
http://cnets.iste.org/students/s_stands.htmlhttp://cnets.iste.org/students/s_stands.htmlhttp://cnets.iste.org/students/s_stands.html

Please feel free to email me if you have any questions or would like assistance implementing these ideas into your classroom. colette@edtechvision.org

Thanks for coming,
Colette