



VSTE Conference
 February 25-27, 2007

 Susan Kenney
 EDIT 747 - Final Project
 Dr. Debra Sprague
 April 30, 2007

Keynote Speaker
Marc Prensky

- | School
- | Enlightenment
- | Darkening
- | "Learning comes from passion!"
- | Engage Me or Enrage Me




Respect- Learning community

Teachers -- strengths

- | Setting conditions,
- | Providing context,
- | and guiding students to content knowledge, and skills

Student – strengths

- | Technology intuition
- | Creativity

All Must be opened to learn from each other!

- | Outlaw
- | Analyze
- | Research
- | Create new and improved entries




Change

| "The change that is threatening to adults is invigorating to students!" (Prensky VSTE 2007, VSTE 2007)


Traditional	Technology
Books- 2-6 years old	Digital Text – current- some researched- some opinions
Lectures	Interaction with Experts
Class Discussions	E-chats – BLOGS - E-mail- around the world!
References	United Streaming
Black boards	Search Engines
Charts & Posters	online references
Paper, pen, pencil	Simulations
	Podcasts
	Problem based learning
	Authentic activities
	Web based projects
	WebQuests
	Interactive tools- White boards & response systems
	Graphic organizing software

What's in your IPOD?

- | Frances Smith, Ed.S., CVE –
Technology Coordinator
- | Mona Pruett, M.S., OTR. –
Program Specialist


IPODs

- | Students have, enjoy, & use
- | Educational value?



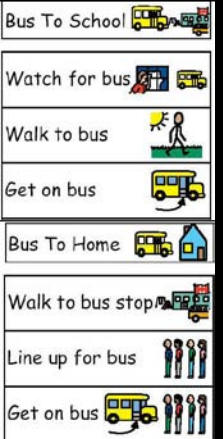
Study

- | Voice memos,
- | Capacity to hold and play
 - | PowerPoints,
 - | podcasts,
 - | text documents, and
 - | audio lectures




Organization

- | Calendars with alarms,
- | Visual schedules, and an area for keeping
- | Contact information.
- | Maps can be downloaded to help students
 - | find classes,
 - | bus stops, or
 - | other places.
- | portable storage device - school related materials



For Audio learners

- | Library of E-text documents,
- | Text documents, and
- | Audio books.



For those with Autism & similar needs

- | Social stories,
- | Photo schedules, and
- | Visual supports



For Students with a variety of learning needs

- | Multiple means to present information they have learned through
 - | audio recording,
 - | video recording and
 - | audio/video podcasts.
- | Create artifacts for alternative assessments
 - | Virginia's high stakes Virginia Alternate Assessment Program (VAAP) and
 - | Virginia Grade Level Assessment (VGLA) alternatives to the Standards of Learning (SOL) Assessment.


Podcasts

- | available for educational use from
 - | NASA,
 - | National Geographic and
 - | Other groups



Opening the Door for Webquests

- | By Dr. Al Durso and Ms. Bert Rakestraw
Norfolk Technical Center, Norfolk VA



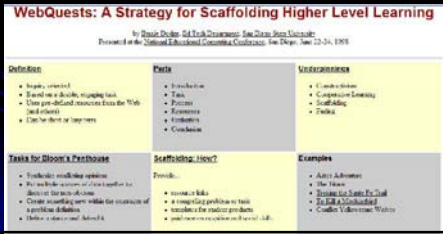
WebQuest

- | Instructional activity
 - | Inquiry based.
 - | Cooperative Learning groups
 - | Gather information from the Internet
 - | Help solve a challenge
 - | Realistic Tasks
 - | Websites are predetermined

WebQuest

Students don't memorize facts, they

- | analyze,
- | synthesize, and
- | evaluate information



WebQuest

- | Adapt
- | Construct
- | CD -- links
 - | Instructions for building a WebQuest
 - | Graphics
 - | Suggestions
- | A suggestion was made that older students could create WebQuests for younger students.

WebQuest

- | 2 to 4 students
- | Focus on a task to
- | Achieve a goal
- | Create an end product with the information
 - | Explain what they did with the information, and
 - | Why.
 - | PowerPoint,
 - | Radio show on tape,
 - | Movie maker project,
 - | Playlet,
 - | Mock court,
 - | Lesson plan,
 - | Time line or
 - | Any other creative project.

WebQuest

- | Rational,
- | Motivation,
- | Steps, and
- | Examples to encourage teachers to add WebQuests to their teacher's inventory of technological activities.

WebQuest

WebQuest Search Results

51 WebQuests found. Newest WebQuests submitted are at the top of the list. To see a WebQuest, click on its name.

Has a link gone bad? Please report it by clicking here:

Name & Description	Author(s)	Grade/Content Areas
Quilting Lesson In this unit, third grade students are combining math, social studies, and research to create a quilt that visually represents Mexico. Submitted Mar 18, 2007	Wendy Shoaf	Grade: K-2 English/Language Arts Math Social Studies
Biosome Magazine This WebQuest is designed so that students can learn collaboratively in groups about a particular Biome while incorporating math, Language Arts, history, geography, current events, and environmental science into a magazine publication. Submitted Mar 13, 2007	Mary Peterson	Grade: 3-5 English/Language Arts Science
The Daily Quantities In Our Lives We deal with quantities daily in our lives from the moment we wake up	Anne Le	Grade: 9-12 Math

Eric: You've Changed!

- | By Paul Parron,
Director of the Library and Archives
George C Marshall Foundation and
- | Susan Elkins-Mahood-
Instructional Technology Resource
Teacher-
Rockbridge County Schools

ERIC

- | Research though electronic databases
 - | OAlster,
 - | PubMed,
 - | VT Electronic Theses and Dissertations,
 - | Virtual Library of Virginia,
 - | The World Wide Web, and
 - | ERIC.

ERIC

- | Procedure of locating full text
 - | thesaurus and
 - | glossary.
- | Home page
- | How to conduct a basic search in ERIC,
 - | U.S. Department of Education sponsored library of educational research and information
- | Handout
 - | screen shots - search procedure clear and systematic.
 - | Public library card -- Find It Virginia.
 - | Research on topics of interest -- help teachers find scientifically based strategies to help students.

The Brain: Making Learning Stick

- | By Linda Hiller
Loudon County Public Schools

Crucial for Long Term Memories

adapted form Jeb Schenck, 2003

- | Attention
- | Emotional significance
- | Working memory
- | Meaning and motivation
- | Long term Memory
- | Assessment and retrieval

Attention

- | Attracted through the senses
 - | Verbal,
 - | Visual, and
 - | Auditory cues.
- | Emotions
- | Quoted Neuroscience research is validating the link between emotions and learning. Caine, Caine, McClintik, Klimek, 2005

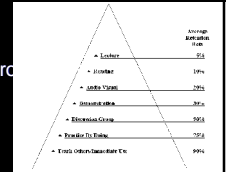


Attention

- | Motivation and
- | Relevance are active,.
- | Working memory
 - | Step towards long term memory
 - | Shorter words,
 - | Smaller chunks,
 - | Frequent feedback and
 - | Colors.

Attention

- | National Training Laboratories
 - | Active participation
 - | Long term memory is a dynamic process
 - | Connects and
 - | Consolidates information over time.
- | students should be assessed
 - | In ways that they were taught.
 - | Many strategies shown to be effective
 - | Mnemonics,
 - | Visualization,
 - | Chunking,
 - | Repetition,
 - | Songs,
 - | Stories, and
 - | Many others.
 - | Choice is another key in learning.



Attention


- | Technology can employ all those strategies so that students can learn effectively.



- "
- I ntegrate 21st Century Literacy
 - M eaning, motivation, memories
 - P atterned, Problem and Project-based learning
 - A uthentic learning, analysis
 - C hoice, create, collaborate
 - T ime" (Hiller, VSTE 2007)


Interactive white boards

- active learning,
- color coding, and
- engaging multimodal materials



Student response systems

- Active learning
- Immediate responses
 - Teachers give feedback and
 - Clarify misconceptions




Simulations

- A powerful way to explore,
 - Problem solve, and
 - Make abstract concepts more real.
 - Reasoning skills are strengthened
 - Students experience the effects of their decisions.



Social Tools and Collaboration

- Chats,
- Discussions, and
- Interactions with professionals in different fields.



Graphics and visuals

- Processed more quickly than text
 - Graphics,
 - Video clips in United Streaming and Safari Montage focus attention on the concepts being covered.



Authentic learning

- Students
- Remember information
- Apply it in different situations.
- Learning becomes
 - Purposeful and
 - Inspirational.



Teacher Education must:

- Inform
- Model
- Practice, and
- Encourage innovative uses of technologies
 - IPODS,
 - Webquests,
 - WIKIs,
 - Blogs,
 - Virtual manipulatives,
 - Virtual field trips,
 - Interactions with experts
 - Simulations



Teacher Education

Teacher educators must integrate the use of technology in Classes & in-service workshops- inform, share, model, and allow time for guided practice if the new technology will be integrated into K-12 classrooms. As suggested by Sprague, Cooper, and Pixley in High tech Mentoring: Evaluating the Impact of a PT3 Project.

Teacher Education

Often the message does not filter down to the teachers. Sprague, (2004) At the VSTE Conference there were very few teacher attendees. The message will only get to them if those of us who went share the information in a way that will interest them and encourage them to try some of the wonderful resources, materials, and strategies we brought back.

- | This information is posted for
 - | Assistive Technology Team
 - | Teachers in my district.
- | I will also share it personally
- | I will model a less familiar technology in my workshops (for example WebQuests)



Think, Pair, Share

- | Which technology can you envision using in your classroom?
 - | How would you implement it's use?
- | Which website would you like to investigate?
 - | How could you use the information in your classroom?

I think I can!
I think I can!
I think I can!
I think I can!
I think I can!
I think I can!
I think I can!
I think I can!
I think I can!
I think I can!
I know I can!
I think I can!
I think I can!
I think I can!
I think I can!

Positive thinking is half the work...

Resources

IPOD Resources

- | The Use of IPOD's in Education – Journal Articles
<http://dirkson1.wordpress.com/journal-articles/>
- | The IPOD Blog
<http://playlistmag.com/weblogs/ipodblog/>
- | Podcasting in Education
<http://www.apple.com/education/solutions/podcasting/>
- | IPOD's at Georgia College and State University
<http://ipod.gcsu.edu/>
- | Teach 42 – Your Guide to Educational Podcasts
<http://www.teach42.com/edupodcasters/>
- | Apple's IPOD's in the Classroom
<http://www.apple.com/education/ipod/>
- | Apple's IPOD's in the Classroom: Lesson Plans
<http://www.apple.com/education/ipod/lessons/>

- | The Duke Digital Initiative
<http://www.duke.edu/ddi/>
- | iTunes U
http://www.apple.com/education/solutions/itunes_u/
- | The UK Classroom
<http://mgsonline.blogs.com/mgspodcast/>
- | Podcasting from Your Desktop
<http://odeo.com>
- | EDUCAUSE Learning Initiative (ELI)
<http://www.educause.edu/eli>
- | More podcasting ideas.
<http://www.teachingideas.co.uk/ict/podcasting.htm>
- <http://www.gln.k12.va.us/podcasts/>
- www.vcu.edu/ttac
- www.videora.com
- | WebQuest Resources
<http://portaportal.com>
- <http://webquest.org> (Bernie Dodge/San Diego University)
- | Kathy Schrock has an analysis guide for evaluating websites

<http://school.discovery.com/>
<http://school.discovery.com/schrockguide/webquest/webquest.html>
<http://www.biopoint.com/>
<http://www.biopoint.com/WebQuests/webquests1999.html>
<http://edweb.sdsu.edu/webquest/materials.htm>
<http://bestwebquests.com/>
 | This site helps teachers build rubrics.
<http://rubistar.4teachers.org/index.php>
 | This is a WIKI for many VSTE materials from VA Beach.
<http://vbatvste.wikispaces.com/>
 | The Best of the Best Guest Portal
<http://quest.portaportal.com/vste07>
 | Movie Sites
<http://www.atomiclearning.com/moviemaker2>
<http://www.microsoft.com/windowsxp/using/moviemaker/getstarted/default.mspx>
<http://www.mightycoach.com/articles/mm2/index.html>
 | Book Review
http://www.kempsvillerns.vbschools.com/library_Bookreview.htm
 | Poetry
<http://www.poetictechnology.com/>

| Math- Geometry simulation
<http://www.geom.uiuc.edu/projects/visualization/>
Web-based projects
 | The journey North
<http://www.learner.org/jnorth/>
 | The Monster Project
<http://www.monsterechange.org/>
 | The international Boiling Point Project
<http://www.k12science.org/curric/home.html>
Concept Building Simulations
 | Boil Water simulations
<http://ppex.ppl.gov/interactive/energy/boilwater.html>
 | Algebra Balance Scales
http://mattl.usu.edu/nlvm/nav/frames_asid_324_g_3_t_2.html?open=instructions
 | Weight, Mass, Volume, Density, Gravity- I could not access this one.
<http://www.eoascientific.com/> this is the parent site I did find.
http://www.eoascientific.com/campus/science/multimedia/weight_mass/view_campus/interactive
 | Funderstanding Roller Coaster
<http://www.funderstanding.com/K12/coaster/index.html>
 | Solar System Simulation (model)
http://www.forgefx.com/casestudies/prenticehall/ph/solar_system/solarsystem.htm

| Dinosaur Survival Game
<http://www.bbc.co.uk/dinosaurs/bigalgame/index.html>
 | [Online Brain Resources](#) Online Brain Resources
 | 3-D Brain (by function)
<http://www.pbs.org/wnet/brain/3d/index.html>
 | The Teenage Brain
<http://www.pbs.org/wqhb/pages/frontline/shows/teenbrain/>
 | The Adult Brain The Adult Brain
<http://www.pbs.org/wnet/brain/episode4/>
 | Neurosciences for kids
<http://faculty.washington.edu/chudler/neurok.html>
 | NIH NIH on Brain: Brain Basics
http://www.ninds.nih.gov/disorders/brain_basics/know_your_brain.htm#making
 | Howard Hughes Medical Institute—Seeing, Hearing, and Smelling the World
<http://www.hhmi.org/senses/>
 | ASCD ASCD brain and Learning The brain and Learning
<http://www.ascd.org/porta/site/ascd/menuitem.5433809e77a3c59bbfb3f4db62108a0c/>
 | Journal of Cognitive Sciences Journal of Cognitive Sciences
<http://www.mitpress.mit.edu/catalog/item/default.asp?sid=2BD99E49-3C02-48F1-AE6B-6E18F6F6F97&type=4&tid=12>
 | WebQuests created for students who are Deaf and/or Blind
http://www.uen.org/utahlink/activities/view_activity.cgi?activity_id=8224
 | From Linda Hiller's The Brain: Making Learning Stick
 | Schenck, Jeb. Learning, Teaching, and the Brain .Knowa Inc.2003.

