

21st Century Knowledge, Skills and Tools for the Educator

Do You Remember?

Calculators
with paper
rolls?

Manual
Typewriters?
Correcto
Type?

TV
Analog
To
Digital?

Flat Screen



Thomas Friedman, *World is Flat*

Shopping
At a
Mall?

Computer
Wars?
Mavis
Beacon?

Rotary
Phones

Your office is
now in the car.

SHIFT HAPPENS—THE WORLD IS FLAT

Elements of the Old Workplace	Elements of the New Workplace
Structured, M-F, 9—5	Flexible, 24/7
Stable, secure, pensions	Changing; little security
Pay linked to position	Pay linked to productivity
Financial incentives	Variety of incentives
Continual employment	Frequent periods of unemployment
Linear career—straight up	Non-linear career; 5—15 jobs
Work for others	Self Employment
Local or national economy	International, global economy
White male influence	Multi-ethnic, female influence
Job specific duties	Many duties
Large employers	Small employers
Labor intensive	Knowledge intensive
Worker as instrument	Worker as human resource
Education is completed	Life-long learning
Education and work considered separate	Education and work commingled
Focus on product	Focus on customer service
Error, slippage tolerated, even expected	Total quality management/control

Classroom 2.0

21st Century Knowledge and Skills	21st Century Tools
Communications - Writing	Blogs, Web 2.0
Communications - Speaking	Presentation software, videos, Smart Boards
Communications – Listening/ Following Instructions	Podcasts
Critical Thinking	Simulations/Games
Problem Solving	Simulations/Games
Research	Google, Feed Burner, RSS
Organizational - Use of Resources and technology	Delicious, Bloglines, Grazr
Decision Making	Simulations/Games, Second Life
Creativity and Innovation	Flickr - Slide Sharing Videos, Mash Ups
Computer Literacy	Use of computer software, Internet and tools.
Financial Literacy	Use of computer software, Internet and tools.
Team Work/Collaboration	Wikis, Skype
Leadership	Simulations/Games
Adaptable/flexible	Simulations/Games
Social Responsibility	Social Networking
Productivity and Work Ethic	Group Projects
Global Awareness	Social Networking, Cluster Maps



Instructor—Facilitator, Knowledge Management

21st Century Tools	WHAT	WHY	HOW
Blogs	Online journal dedicated to a specific topic or group.		Free
Bloglines	Webpage of your favorite blogs, videos, podcasts		Free
Podcasts	Digitized audio and/or video.		Free
Grazr	A web program which finds and collects data and lists them on your blog.		Free
Google	Research, collaboration, communication tools		Free
Feed Burner	Web program which connects your blog with a specific site.		Free
Delicious	Web page which accumulates your favorite links. Everyone can connect to your page.		Free
RSS and Feed Reader	Really Simple Syndication—web program which allows users to subscribe to blogs, websites, online news sources.		Free
Wikis	Group collaboration tool.		Free
Flickr	Slide and picture sharing on the Internet.		Free
Skype	Internet telephone communications with picture.		Free
Twitter	Instant Messaging		Free
Second Life	Game simulation—real world		Free
Social Networking	MySpace, Facebook, Linkin In, Friendster		Free
Cluster Maps	Web software which maps all contacts to your blog.		Free
Social media	Tools that allow anyone to create, share, modify, and critique online content and join online communities.		Free
Mash Ups	Mixing several of these tools together for one specific, unique purpose.		Free

21st Century Education: Simulations and Games

TYPES OF GAMES

- Action
- Strategy
- Adventure
- Educational
- Simulation
- Puzzle

BENEFITS OF GAMES

- Engagement—active learning
- Expectations
- Experiential learning
- Collaborative learning
- Goal Oriented



CLASSROOM

- English (creative writing, journalism, debating)
- Social Studies
- Business/Economics
- Math
- Physics
- Physical Education

GAMES

- Blogging, instant messaging, podcasts, flash animation, Macromedia
- Civilizations, Sims
- Economy of the World, Work Craft
- Second Life
- Engine games
- X Box

- DECA, FBLA
- Stock Market Game
- LifeSmarts
- Fed Challenge
- Virtual Enterprise

WEB LINKS

Links to videos, instructional content

<http://www.careersmarts.com/21c.htm>

Common Craft Tools—great instructional videos

<http://www.commoncraft.com/>

Classroom 2.0

<http://www.classroom20.com/>

David Warlick 2Cents

<http://davidwarlick.com/2cents/>

Digital Media and Learning

<http://digitalllearning.macfound.org/site/c.enJLKQNIFiG/b.2029199/k.BFC9/Home.htm>

WBL21C

<http://wbl21.blogspot.com/>

GREEN ROOM - great podcasts

<http://www.ltgreenroom.org/>

Partnership for 21st Century Skills

<http://www.21stcenturyskills.org/>

Will Richardson

<http://weblogg-ed.com/>

Ed Tech for 21

<http://lainiemcgann.blogspot.com/>