

I-TOTEMS: Seven Essentials of Technology-Rich Learning

Annette Lamb http://eduscapes.com/sessions/itotems

I-totems are the information processes, resources, and tools students need to identify essential questions, evaluate multiple perspectives, and make informed decisions.

- What if we help students connect their personal world to the larger social. historical, and scientific community?
- What if we taught the joy and art of learning?
- What if we helped our students learn to make informed decisions?
- What if we used technology to empower?

National Museum of the American Indian http://www.nmai.si.edu/

Me: What technology tools and resources will help me learn and share my understandings?

We: What technologies and activities will facilitate group learning and understanding?

Pirates of Pigeon Creek http://www.evsc.k12.in.us/room24/

Our: What technologies will help me understand and enhance my relationship with the world?

Voices of Civil Rights http://www.voicesofcivilrights.org/

Information

Young people need questions to stimulate inquiry and exploration. They need access to facts, data, knowledge, and wisdom. They need guidance in how to select, evaluate, apply, organize. synthesize, and communicate ideas. How do you and your students acquire and use information?

Read A Northern Light by Jennifer Donnelly or An American Tragedy by Theodore Dreiser

Court Case http://www.courts.state.ny.us/history/gillette.htm

http://www.pausingtoremember.net/Fatal Journey Part One.html Love Letters

http://www.jenniferdonnelly.com/ Discussion Questions

Questions: What do I know, need to know, want to know? Who cares? Why should I care?

Ease History http://www.easehistory.org/

Access: Museums, libraries, collaborative projects, and agencies

http://eduscapes.com/tap/ ARKive http://www.arkive.org/ Teacher Tap Guidance: Sorting, selecting, applying, organizing, analyzing, synthesizing, and communicating One Planet Many People http://www.na.unep.net/OnePlanetManyPeople/index.php

Time

Young people need time to watch, wonder, wiggle, weave, wrap, wave, and wish. They need time to explore, question, search, evaluate, synthesize, create, communicate, and assess. How do you and your students make the best use of time?

Keep It Simple: Balance production and use with needs and standards **Limit Production Time**: Elevator Moods http://www.elevatormoods.com/

Focus Attention: KidsHealth http://kidshealth.org/kid/ Cool Spot http://www.thecoolspot.gov/

Find Help: Breaking News http://www.breakingnewsenglish.com/

> ipodder http://ipodder.sourceforge.net/

Repeat, Reinforce: Missouri Botanical Gardens http://mbgnet.mobot.org/

Opportunities

Young people need choices, options, and alternatives to explore. They need chances to do, try, explore, travel, and interact. How do you select among opportunities?

Multi-sensory Approaches: Interactive stories, audio books, audio on web pages, podcasting Improving Oral Fluency http://www.readingonline.org/articles/art_index.asp?HREF=oakley/ Elementary School Podcasting http://mrmayo.typepad.com/magazine/

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Apple Exhibits http://ali.apple.com/ali_sites/ali/exhibits/1000510/

Decision-Making: Question, Investigate, React, Act

PBS Kids Don't Buy It http://pbskids.org/dontbuyit/

Tools

Young people need resources and technologies for thinking, creating, and communicating. They need materials for physical and mental work and place. What tools facilitate your work?

Read Americans who Tell the Truth by Robert Shetterly http://www.americanswhotellthetruth.org/

Scholastic Flashlight Readers http://teacher.scholastic.com/activities/flashlightreaders/

TATE Imaginary City http://www.tate.org.uk/learning/kids/city/

ThinkPort's Villainy, Inc http://villainyinc.thinkport.org

Earthquake http://dsc.discovery.com/anthology/unsolvedhistory/earthquake/interactive/interactive.html Virtual Ecosphere http://www.open2.net/diyscience/ecosphere/index.html

Experiences

Young people need practical, meaningful, and active participation with varied activities. What experiences do you and your students seek?

FalconCam http://falconcam.apk.net/

Falcon Project http://powayusd.sdcoe.k12.ca.us/pusdrhes/5thgrade/falcon2005/intro.htm

Jean Craighead George http://www.jeancraigheadgeorge.com/
Incubator Simulation http://www.aviary.org/curric/incubator.htm

Motivation

Young people need to be engaged in meaningful, relevant, and authentic activities. They need positive, supportive, and enthusiastic models. What motivates you and your students?

Teacher Tap: Contests http://eduscapes.com/tap/topic113.htm

Read Under One Rock: Bugs, Slugs, and Other Ughs by Anthony D. Fredericks

Kids-Learn http://kids-learn.org/

Schoolhouse Video http://www.schoolhousevideo.org/

Exploravision http://www.exploravision.org/2004/national winners.htm

Strategies

Young people need techniques for addressing strengths, weaknesses, opportunities, and problems. They need scaffolding for critical and creative thinking. What learning strategies you and your students?

Organize Technology: Bloglines http://www.bloglines.com/

Teacher Tap: News Resources http://eduscapes.com/tap/topic27.htm

Addressing Individual Differences: Gregor The Overlander by Suzanne Collins

Reading Levels: EPA http://epa.gov/ FirstGov http://firstgov.gov/

Inquiry-based Approach: WebQuest http://www.nelliemuller.com/The Last Spin WebQuest.htm

Conclusion

How can the I-TOTEMS enrich the lives of you and your students?

Shakespeare: Subject to Change http://www.ciconline.org/bdp1/000 home.asp

Bill Gates Governor's Conference 2005

Gate's Solution: Rigor, Relevance, Relationships

http://www.gatesfoundation.org/MediaCenter/Speeches/BillgSpeeches/BGSpeechNGA-050226.htm

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