EdTech & Instruction for 21st Century Skill Building

http://goo.gl/Pi1DOu
Hello!

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1. **Pedagogy & Technology**

Let’s start with the framework...
“The Framework presents a holistic view of 21st century teaching and learning that combines a discrete focus on 21st century student outcomes (a blending of specific skills, content knowledge, expertise and literacies) with innovative support systems to help students master the multi-dimensional abilities required of them in the 21st century and beyond.”
21st Century Standards

- Builds interdisciplinary understanding
- Emphasizes deeper understanding & allows for multiple measures of mastery
- Actively engages student

Requires that educators rethink activities & assessments to meet 21st Century needs
21st Century Teaching
New Literacies, Problem-Based Learning, and Innovation
Multimodal Instruction Enhances

Student Motivation

Collaboration

Inter-disciplinary Foci

Motivating 21st century students requires the acknowledgement that learners make meaning in multiple ways, and associating a task as valuable requires students to make connections with various modes and mediums.

Tech in Education

BLOOM'S

Creating

Evaluating

Analyzing

Applying

Understanding

Remembering

Educator designs a task that has a significant impact on student outcomes

SAMR

Redefinition
Tech allows for the creation of new tasks, previously inconceivable

Modification
Tech allows for significant task redesign

Augmentation
Tech acts as a direct tool substitute, with functional improvement

Substitution
Tech acts as a direct tool substitute, with no functional change

Enhancement

http://www.hippasus.com/repweblog

Developed by Kathy Schrock
November 2013
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Inspired by the work of Andrew Churches and Loui Lord Nelson
Collaboration

How can EdTech enhance students’ collaborative skills?
Collaboration Works!

Check out how well collaboration works in the wild with this footage taken at Kruger National Park.
Let's Collaborate

Click the image above to redirect to a collaborative Padlet
Student-Centered Pedagogy

Inquiry-Based Instruction

Active Learning Engagement
Why consider EdTech Tools in Instruction

Student Motivation
Use EdTech to engage students in activities that enhances students’ critical thinking

Collaboration
Create a learning environment that enables students to work and share with peers and instructors

Interdisciplinary Foci
Widen student knowledge by providing info that spans multiple contents
## Core Subjects & Critical Thinking

**Citelightter**  
A digital writing platform with built in citation, research, grading, badging, and chat features to aid organization & the writing process for clearer & more purposeful communication.

**Newsela**  
A advertisement-free current events nonfiction reading comprehension tool with in-text annotation, progress tracking features, and lexile-specific assignment options.
Citelighter: Rethinking Writing
Newsela: Reading for Today

Assigned on 09.17.14

Pd 1 Eng 2 Adv  "Cool" kids in middle school struggle in their 20s, study finds

<table>
<thead>
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<th>Quiz Average</th>
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Assigned on 09.17.14

Pd 1 Eng 2 Adv  Women get the OK to fight in combat units

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Assigned on 09.12.14

Pd 1 Eng 2 Adv  Central America turmoil may be cause of child migrant surge

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New Literacies & Learning Styles

How can EdTech meet the needs of 21st Century students?
"Mediums" of Understanding

Linguistic  
Technological  
Social

Learning “Metalanguages”

21st Century Meaning Making

- Auditory
- Gestural
- Spatial
- Linguistic
- Visual
- Multimodal

What We Remember

- 90% of what we SAY and DO (e.g., doing a dramatic presentation, making a video, creating an animation, building a robot)
- 70% of what we SAY
- 50% of what we HEAR and SEE (e.g., watching a video, a presentation, a demonstration)
- 30% of what we SEE
- 20% of what we HEAR (e.g., listening to a lecture, a podcast, a radio interview)
- 10% of what we READ (e.g., reading a book, an article, a blogpost)

Based on the work of Edgar Dale
Multimodalities

Providing opportunities for multiliteracies, participatory culture, and innovation
Participatory Culture

What is Participatory Culture?
Create interactive slides that enable students to participate, while teachers receive stored results
SAMR-IZE
Instruction!
# Feedback for the Future

## Career Paper Excerpt

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<td>Ideas have little organization; there may be a superficial structure. Individual coherence and development are lacking.</td>
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Below is a snapshot of a rubric used for an essay written about the short story "The Fall of the House of Usher." This essay topic was written for the class theme and focus of the story, and each set to argue why the story is a classic. The story supports quotes and references to the text. This rubric belongs on this page because it assesses an argumentative essay. The rubric also supports us learn how to write an argumentative essay and expand our writing skills to other texts.
Feedback/Share

http://tinyurl.com/ELD15-9

Any questions?

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THANKS!
Credits

Special thanks to all the people who made and released these awesome resources for free:

- **Busy Icons** by Olly Holovchenko
- Presentation template by **SlidesCarnival**
- Photographs by **Unsplash**
- Resources cited on each Slide