EdTech & Instruction for 21st Century Skill Building

http://goo.gl/Pi1DOu
Hello!

I am Natalie O’Neil

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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  Interdisciplinary 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

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

BLOOM’s

- Understanding
- Remembering
- Applying
- Analyzing
- Evaluating
- Creating

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

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
<table>
<thead>
<tr>
<th>Why consider EdTech Tools in Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Motivation</strong></td>
</tr>
<tr>
<td>Use EdTech to engage students in activities that enhances students’ critical thinking</td>
</tr>
<tr>
<td><strong>Collaboration</strong></td>
</tr>
<tr>
<td>Create a learning environment that enables students to work and share with peers and instructors</td>
</tr>
<tr>
<td><strong>Inter-disciplinary Foci</strong></td>
</tr>
<tr>
<td>Widen student knowledge by providing info that spans multiple contents</td>
</tr>
</tbody>
</table>
Core Subjects & Critical Thinking

**Citelighter**
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

Read closely. Think critically. Be worldly.

Assigned on 09.17.14

Pd 1 Eng 2 Adv  "Cool" kids in middle school struggle in their 20s, study finds
Quiz Average 95%
Quiz Completion 23/26
Quiz Level 9
Viewed 23/26
Annotations 8/26
Responses 0/26

Assigned on 09.17.14

Pd 1 Eng 2 Adv  Women get the OK to fight in combat units
Quiz Average 73%
Quiz Completion 25/26
Quiz Level 9
Viewed 25/26
Annotations 4/26
Responses 0/26

Assigned on 09.12.14

Pd 1 Eng 2 Adv  Central America turmoil may be cause of child migrant surge
Quiz Average 64%
Quiz Completion 24/26
Quiz Level 8
Viewed 24/26
New Literacies & Learning Styles

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

Learning “Metalanguages”

21st Century Meaning Making

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

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

What is Participatory Culture?
PEAR DECK

Create interactive slides that enable students to participate, while teachers receive stored results.
SAMR-IZE

Instruction!
## Feedback for the Future

### About Me

- Academics: Persuasive Argumentative Writing
- Engaging with Informational Texts
- Narrative, Personal, & Informal Writing
- Projects, Presentations, & Multimedia
- Utilizing Research & Idle Sources

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### Career Paper Excerpt

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### Criteria B: Organization and Development

- **Scores:**
  - 5: There is excellent understanding of the passage, demonstrated by successful interpretation and effective organization in the passage.
  - 0: The work does not reach a standard described by the descriptors below.
  - 1: Ideas have little organization; there may be a superficial structure. Insufficiency of completion and development are lacking.

Below is a screenshot of a rubric used for an essay written about the short story, "The Fall of the House of Usher." The essay topic focuses on what the main theme and feeling of the story represents. The essay also argues why the events in the story support the quotes and references to the text. This rubric belongs on this page because it assesses argumentative essays. This rubric also helps us learn how to write an argumentative essay and improves our writing and how to give us feedback.
Any questions?

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THANKS!

http://tinyurl.com/ELD15-9
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