From Context to Frameworks to Practice: A Toolkit for Informed Leadership

Ruben R. Puente, Ph.D.
Goals

Focus

Models

Technology
Augmenting Human Intellect & Learning Capacity

21st Century Learning

One-to-One Technologies
**Substitution**
Tech acts as a direct tool substitute, with no functional change

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

**Modification**
Tech allows for significant task redesign

**Redefinition**
Tech allows for the creation of new tasks, previously inconceivable
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<table>
<thead>
<tr>
<th>Social</th>
<th>Mobility</th>
<th>Visualization</th>
<th>Storytelling</th>
<th>Gaming</th>
</tr>
</thead>
<tbody>
<tr>
<td>200,000 years</td>
<td>70,000 years</td>
<td>40,000 years</td>
<td>17,000 years</td>
<td>8,000 years</td>
</tr>
</tbody>
</table>
Brief Lecture or Group Discussion
(~10 minutes)

ConcepTest
(~1-2 minutes)

Fewer than 30% of students answer correctly
The instructor revisits and explains the concept

Between 30-75% of students answer correctly
Peer Discussion: students try to convince each other
(~2-3 minutes)

More than 75% of students answer correctly
The instructor explains remaining misconceptions

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Resources


- TPCK - *Technological Pedagogical Content Knowledge*. Online at: http://tpack.org


