Technology In Education: Frameworks, Models, and Applications

Ruben R. Puente, Ph.D.
Figure 1 captures the key qualities—the future is already here. Six Cs form the agenda: character, citizenship, communication, critical thinking and problem solving, collaboration and teamwork, and creativity and imagination. As we delve into the meaning of these concepts, it is important to stress that we should not launch into an abstract discussion. In the next period of development, these core priorities must be defined, operationalized in practice, measured to mark success and to clarify progress and next steps, and widely shared in terms of spreading what works. This process of specificity and dissemination is our strength. We must put it to good use for the next phase of success.

Figure 1.

The capacity of educators in Ontario, as noted, is at such a high level as a result of the strategies of the past nine years that much of the leadership—what we might call leading from the middle—is already in the system. It needs to be cultivated and spread throughout the province, including establishing clarity of each of the six clusters and their interrelationships, learning experiences that develop the skills and dispositions in question, and the means of measuring and fostering progress in their development. But the middle cannot lead in a vacuum. Focused leadership from the government will continue to be essential.
Redefinition
Tech allows for the creation of new tasks, previously inconceivable

Modification
Tech allows for significant task redesign

Augmentation
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Substitution
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Podcasts on iTunes U: http://tinyurl.com/aswemayteach
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Enhancement
Transformation
AECTE (Eds.) The Handbook of Technological Pedagogical Content Knowledge for Educators. New York: Routledge, 2008.
Gersmehl: Teaching Geography – Four Cornerstones

- Location
  - Position in space

- Condition
  - Mix of natural & artificial features that give meaning to a location

- Links
  - Connections between places

- Region
  - Formal region: group of places with similar conditions
  - Functional region: group of places linked together by a flow
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<table>
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<th>Visualization</th>
<th>Storytelling</th>
<th>Gaming</th>
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<td>40,000 years</td>
<td>17,000 years</td>
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Michael Fullan. Great to Excellent: Launching the Next Stage of Ontario’s Education Agenda. (2013)
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