Computational thinking, technological fluency, computational literacy, and 21st century skills: A Research-Evaluation working group conversation

Wednesday, December 3, 2014

Hosted by:
STEM Learning & Research Center (STELAR)
Education Development Center, Inc.
RECENT WEBINAR

STELAR WEBINAR: ITEST SOLICITATION INFORMATION
Learn about the current ITEST grant program from an NSF Program Officer.

Helping prepare a diverse, skilled, and innovative STEM workforce.

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Innovations: Call for Presenters
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STEM Learning and Research (STELAR) Center

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Groups to Join
- Outreach and Dissemination
- Research-Evaluation
- Data & Impact

My Events

Computational thinking, technological fluency, computational literacy, and 21st century skills: A Research Evaluation working group conversation

Wednesday, December 3, 2014 - 2:00pm to 3:00pm

- Cancel Registration
A new page has been created for this group.

GO TO WORKING GROUP PAGE

Group Members: Carrie Parker, Kate Goddard, Gloria Banuelos, Sukey Blanc, Becca Schillaci, Neal Pollock, Christine Lee, Brian Johnson, Sarah Stewart, Kevin Glass, Bernadette Sibuma, Sarita Pillai, Leslie Herrenkohl, Ginger Fitzhugh, Rhonda Christensen, Katie Andersen, Karen Peterman, Karen Gareis, Amy Grack Nelson, Rebecca Bangura, Nancy Taylor, Alfred Hall, Janet Beissinger, James Diamond, David Reider, Neil Heffernan, Morton Sternheim, Karen Peterson, Emma Lukasiewicz, Joyce Malyn-Smith, Rebecca Schillaci
Discussion Forum

This forum is for members of STELAR and ITEST projects to discuss research and evaluation topics relevant to STEM learning.

**Note:** If you are a member of this working group and would like to post to the forum, you will need to login with the username and password we have created for you.

Your Username is **your lowercase first initial and lowercase lastname** (ex: cparker). Your default password is **Stel@r2014**.

After logging in you will be able to view and change your profile settings including your password.

For assistance, please email stelar@edc.org. **

<table>
<thead>
<tr>
<th>Discussion</th>
<th>Started by</th>
<th>Replies</th>
<th>Last post</th>
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<tbody>
<tr>
<td>How to Login to the Research-Evaluation Working Group</td>
<td>Becca Schillaci</td>
<td>0</td>
<td>Mon, 1 Dec 2014, 2:42 PM</td>
</tr>
<tr>
<td>Sign up for December Webex looking at Computational Thinking and 21st Century Skills</td>
<td>Carrie Parker</td>
<td>1</td>
<td>Mon, 1 Dec 2014, 2:40 PM</td>
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<td>Fri, 21 Nov 2014, 9:30 AM</td>
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<tr>
<td>August 2014 Convening Working Group Notes</td>
<td>Bernadette Sibuma</td>
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<td>Fri, 17 Oct 2014, 11:49 AM</td>
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**Add a new discussion topic**

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iDesign: Developing technological fluency through culturally-relevant game design
(Roberto Joseph, PhD, Hofstra University, PI)

• Project page: http://idesign.hofstra.edu
• NSF award page: http://www.nsf.gov/awardsearch/showAward?AWD_ID=1312240&HistoricalAwards=false
Definitions

• Technological fluency: (MIT)—being technologically fluent involves not only knowing how to use technological tools, but also knowing how to construct things of significance with those tools

• Computational thinking: (CMU)—a way of solving problems, designing systems, and understanding human behavior that draws on concepts fundamental to computer science…creating and making use of different levels of abstraction…thinking algorithmically and with the ability to apply mathematical concepts such as induction to develop more efficient, fair, and secure solutions
Scratch Ed

- Concepts, Practices, Perspectives
  - http://scratched.gse.harvard.edu/ct/defining.html
Of interest…

• Standardizing a measure(s) for computational thinking: possible?
• Writing a lit review?
• Pooling resources—Have others here measured “it”? 