Can we enhance curriculum with cyberlearning resources?

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What is cyberlearning?

1. Jeremy Roschelle: SRI  
   *Overview Cyberlearning*

2. Kathy Perkins, University of Colorado, Boulder  
   *PhET Sims*

3. Jennie Chiu: University of Virginia  
   *Engineering and Science Practices*
What is Cyberlearning?

New technologies change what and how people learn. Informed by the learning sciences, cyberlearning is the use of new technology to create effective new learning experiences that were never possible or practical before.
Represents over 200 separately funded NSF projects
Innovating Pedagogy ’15 *(50,000 downloads!)*

Ten Pedagogies

1. Crossover Learning
2. Learning through Argumentation
3. Incidental Learning
4. Context-based Learning
5. Computational Thinking
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Ten Pedagogies

6. **Remote Scientific Labs**
7. **Embodied Learning**
8. **Adaptive Teaching**
9. **Analytics of Emotion**
10. **Stealth Assessment**
Investigating the Safety of Nuclear Energy Using Real Radioactivity Data

STUDENT PAGE

iLab: Radioactivity iLab

In this lab, you can explore how radioactive radiation changes as a function of distance. This curriculum sets the Radioactivity iLab in the context of nuclear energy, and asks you to consider:

How safe is it to live next to a nuclear reactor?
National Educational Technology Plan ‘16

Includes section on Cyberlearning (p. 16)
Thanks!

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