



Effects & Affordances of Virtual Manipulatives on Student Achievement

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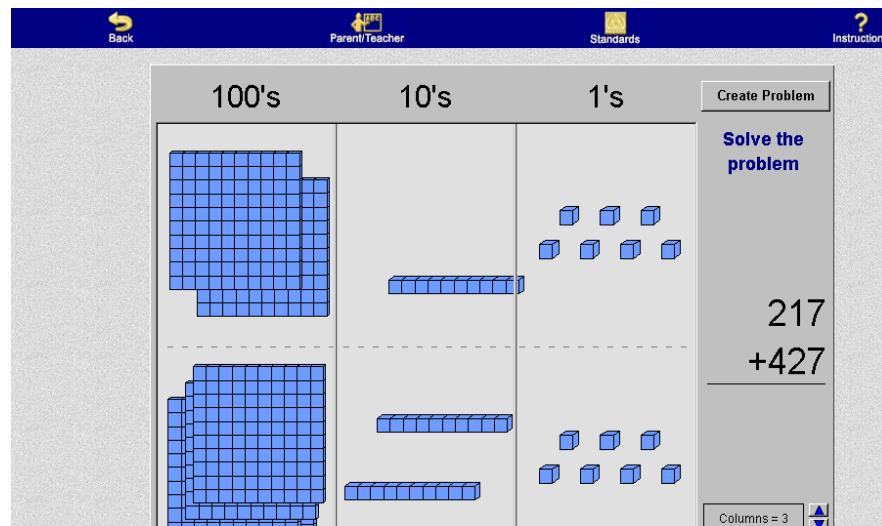
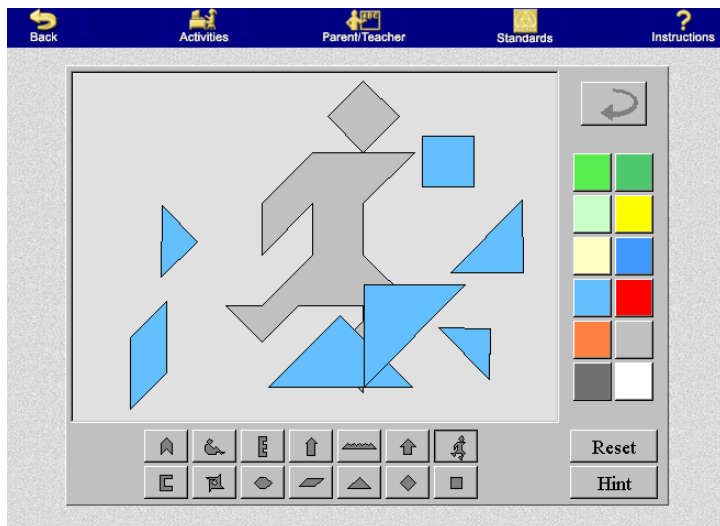
Utah State University



What are *virtual manipulatives*?

“An interactive, Web-based visual representation of a dynamic object that presents opportunities for constructing mathematical knowledge”

(Moyer, Bolyard, & Spikell, 2002)



Virtual Manipulative Websites

- National Council of Teachers of Mathematics
 - <http://illuminations.nctm.org>
- National Library of Virtual Manipulatives
 - <http://nlvm.usu.edu/>
- Shodor Education Foundation
 - <http://www.shodor.org/interactivate/>

Book: Teaching with Virtual Manipulatives

- *Teaching Mathematics with Virtual Manipulatives* (K-8) by Patricia Moyer-Packenham
- Available at www.didax.com



What affordances promote learning?

