

Teachers are architects of learning. Our first focus is to design Mathematically rich tasks. Only then do we think about which technology would support powerful learning.



Creative iPad Apps in Mathematics

Richmond School District's Math Focus Day

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Combining Inquiry based approaches in Mathematics with the creative iPad apps, educators have the power to transform Mathematics teaching, learning, and understanding.

Based on the research I have read, as well as my own personal experience, I believe learning designed in this way:

- ▶ provides opportunities for students to show what they know in multimodal ways using personalized strategies
- ▶ is best when it emphasizes communication, collaboration, and the construction of new knowledge - opportunities for sharing are a part of the lesson
- ▶ encourages creativity
- ▶ makes student thinking visible - it allows us to document their understanding
- ▶ permits students' connections across mathematical concepts as well as between curricular areas
- ▶ shifts the focus from the answer to the process and allows students to uncover the "big ideas" or essential understandings
- ▶ is meaningful = engaging. Student of this generation are often referred to as "digital natives" (Prensky, 2001)
- ▶ allows for misconceptions to become opportunities for learning
- ▶ supports reflection
- ▶ emphasizes higher order thinking
- ▶ fosters 21st century skills such as "gathering, evaluating, analyzing, and presenting"
- ▶ becomes powerful assessment *for* and *of* learning



EVERNOTE SKITCH:

This free app allows users to label and annotate images either from the camera roll or web.

Ways I might use this app in Mathematics:



SHOWME:

This free interactive whiteboard app allows users to draw and orally narrate a process, strategy or explanation. Teachers may also create student accounts.

Ways I might use this app in Mathematics:



EXPLAIN EVERYTHING:

This paid app (\$2.99) is similar to ShowMe but has a few more features including animation. It allows multiple slide presentations and allows for annotation of images and narration.

Ways I might use this app in Mathematics:



HAIKU DECK:

This free presentation app allows users to use images from their camera roll or the web (Creative Commons Images) and provides for short bits of text.

Ways I might use this app in Mathematics:



BOOK CREATOR:

This paid app allows for book creation with audio narration. Users can share books with others, upload to iTunes/iBooks and/or print books in PDF format.

Ways I might use this app in Mathematics: