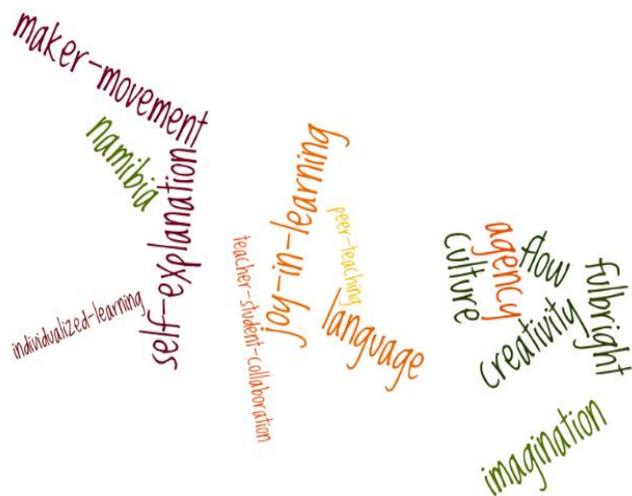




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Welcome to this site devoted to learning science research that I will carry out in collaboration with partners in the USA and Africa while on a Fulbright Research Fellowship. The first stage of this research takes place in February-April, 2015. My host organization in the Republic of Namibia is the University of Namibia, in collaboration with the Namibian Ministry of Education.

This project is a form of design and implementation research, and it is exciting because it blends so many features that will characterize learning environments of the future. The work focuses largely on students and teachers co-creating interactive digital media, including videos and games, as a means to help others acquire and become proficient in mathematics and science. Students and teachers co-create school curriculum materials in dynamic ways. A primary activity is imaginatively using digital media to explaining ideas to other students, which builds in a powerful ethos of service to others. This ethos actually brings a compelling and powerful dimension to the cognitive processes associated with learning.

We have discovered that when teachers and students collaborate and help each other explain ideas through digital media making, they become deeply engrossed and routinely experience what are known as flow states, and approach what advisory board member and international creativity expert Keith Sawyer call "group genius." Ideas such as personal agency, creativity, and personalized learning all find a home base in this work. There is another aspect to this work that merits attention. By collaborating to make new curriculum materials that can be used on location, we open ways for those in low-income countries to play the most prominent roles in addressing shortages of curriculum materials that are culture and language appropriate. This amounts to local ownership and local solutions to deep-rooted problems of access to content and technology in schools.

Links:

- A short video that describes some of this work was recorded outside of Accra, Ghana, in July, 2014

- A detailed summary of the research that will take place on the Fulbright.

- An interview at E-Learning Africa 2013 has been re-published in over a dozen online venues in Africa

- A letter of endorsement from Dr. Jeffrey Sterling, for our efforts to provide participating schools with materials and supplies.



Groups of students, and students with teachers, producing video media to teach mathematical and scientific ideas. These videos can then be used on mobile devices at home or in the classroom.

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