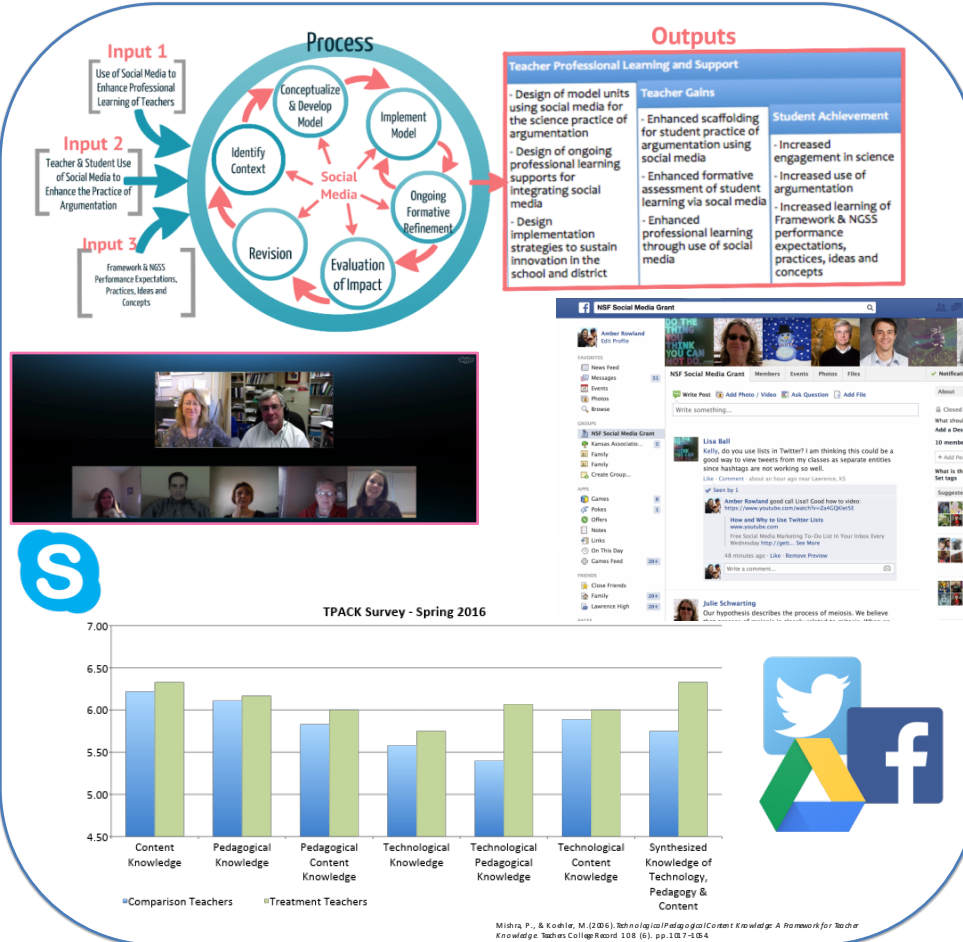


Enhancing Teaching and Learning with Social Media:

Supporting Teacher Professional Learning and Student Scientific Argumentation

Teacher Professional Learning



Student Practice



"Social media helps me in school because I can easily contact my peers, improve on my writing before posting anything, and I can also contact my teachers for any assistance."
~Freshman Biology Student

Implications

- Collaborative exploration of the NGSS combined with the development of a unit of study is powerful professional learning.
- Students in the treatment classrooms learned the components of scientific argumentation and were more confident with usage than those in the comparison classrooms.
- Treatment teachers scored higher on all TPACK constructs than the comparison teachers.

Impacts

- Produced a model unit on Inheritance and Variation of Traits that has a focus on scientific argumentation and social media.
- Developed instructional strategies to facilitate better digital citizens who seek quality evidence and reasoning to support claims that they encounter.
- Developed professional learning for the exploration of the technological, pedagogical and content knowledge (TPACK) needed to better align teaching and learning with NGSS.