

Fostering Scientific Observation, Visualization and Understanding through Art Making

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In this hands-on session, we will explore how arts-based approaches can enliven science curriculum and strengthen understanding. Emphasizing the NGSS practice of Developing and Using Models, this session will seek to create bridges between empirical and narrative processes in the natural sciences.

Opening exercise: Pooh and the Woozle

- Read aloud
- Drawing a diagram as a hypothesis

Challenges to understanding science:

- Domain-specific and mathematical vocabulary
- The world beyond our concrete experience
- Conventions established through the empirical process

Drawing in science

- Next Gen. → developing models
- Engagement
- Observation
- Integrating and Synthesizing Information
- Drawing to communicate
- Retention and application

Microcosmos -creating visual narratives

The Way Things Go - drawing as hypothesis

References

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