

Modeling in the NGSS Elementary Classroom with Dr. Joseph Krajcik



NGSS alignment focuses on students engaging in 3 Dimensional Learning when students use disciplinary core ideas, scientific and engineering practices and crosscutting concepts to make sense of a phenomena or provide a solution to problem. The vision of the NGSS pictures student learning as sensemaking where make sense of the world around them. The NGSS changes our view of science to one in which students are figuring how a phenomena works or designing solutions to problems.

In this workshop, participants will deepen their understanding of the 3 Dimensional learning and experience what it is like to figure out how a phenomena works by engaging in the disciplinary core ideas, scientific and engineering practice and crosscutting concepts in the process students deepen the knowledge of each of the three dimensions. Joe will engage participants in how to assess students' sensemaking through exploration of phenomena appropriate for elementary students. Joe will guide participants through the practice of modeling, using a base rubric to assess sensemaking, and deepen teachers' understanding of how science ideas become deeper and more sophisticated over time.

Joseph Krajcik is Lappan-Phillips Professor of Science Education and director of the CREATE for STEM Institute at Michigan State University. A former high school chemistry and physical science teacher, Krajcik spent 21 years at the University of Michigan before heading to MSU in 2011. During his career, he has focused on working with science teachers to reform science teaching practices to promote students' engagement in and learning of science. Joe currently has a number of projects to design materials and assessments that align the NGSS. He served as lead writer for the Physical Science Design Team to develop the disciplinary core ideas in the Framework for K- 12 Science Education and as lead writer for the physical science performance expectations for the Next Generation Science Standards. Krajcik has authored and co-authored curriculum materials, books, software and over 100 manuscripts, and makes frequent presentations at international, national and regional conferences.

Date:

March 9th, 2017

Time:

8:30am-3:30pm

Location:

San Joaquin County
Office of Education
(Chartville 1)
2707 Transworld Dr.
Stockton, CA 95206

Cost:

\$125.00 per participant
(Check payable to the San
Joaquin County Office of
Education)

Registration Contact:

Office of STEM
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Register at:

goo.gl/OTMpw0



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