

UCLA Science & NGSS Training Agenda

September 26, 2014

Presenter: Annie Maben, Consultant, UCLA Science Project
Co-Presenter: Leticia Perez, Consultant, UCLA Science Project

RESOURCES TO BRING:

- **Laptops**, any books, instructional guides you need for planning

SESSION OUTCOMES:

- Develop an understanding of evidence-based explanations and recognize their important role in science inquiry.
- Learn to apply scaffolding strategies to change cookbook labs into open-ended activities.
- Practice/learn a variety of inquiry-based strategies for NGSS-aligned lesson development.
- Have fun and deepen collaboration among MBUSD teachers.

AGENDA: (after the break)

- Welcome and Inclusion: anticipation guide
- Pill Bug Lab: open-ended inquiry
- Why Inquiry?
- Scaffolding Inquiry – making labs more open-ended
 - *Activities/Exemplars*
- Guided Inquiry Activity – claims and evidence
- **LUNCH** (1 hr, on site)
- Design Detectives Activity – deconstructing experimental design (Elem & MS/HS versions)
- Invasives Attack! PBL Activity, with argumentation (*separate Elem break-out for argumentation*)
- Using Case Studies: *The Case of the Ivory-billed Woodpecker* (*separate Elem activities*)
- Reflection and connections to NGSS Science & Engineering Practices, Cross-cutting Concepts

SCIENCE & LITERACY STRATEGIES modeled and practiced during the training :

- Anticipation Guide, Experimental Design, Guided Inquiry, Open-ended Inquiry, Claims & Evidence, Argumentation, Quick Write, Pair Share, Marginal Notation, Talking-to-the-Text, Guiding Questions, Problem-based Learning, Dialog vs. Debate, Data Analysis