

**Names of Participating Teachers:** Lee Susan Kris Boyes Smith Camacho

**Lead Contact for Project:** Lee Boyes

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**School Sites:** Petaluma High School

**Grade Level/and or Course Name:** 9-12 (mostly 9) Physical Science and 11-12 AP Environmental Science

**Name of Unit/Project:** Creeks Up Close: Thompson Creek and the Petaluma Watershed

**Integrated Academic Disciplines:** Social Studies, English, Math

**Implementation Timeline:** August to June, depending on weather and rainfall!

**Provide a brief (100 word max) description of how you will strengthen your curriculum proposal from last year's project? Include if there is a change to the Essential Question or Key Learning Objectives.:**

We will be testing Thompson Creek in April 2015. Next year we hope to test again, multiple times, and help build your data base of water parameters. We will also track our results in-house and intend to compare/contrast between seasons, before/after a rain event, etc. using your Watershed Classroom data.

AP Environmental will continue to collect data at the Petaluma River, so we'll be adding data to the Watershed Classroom from two locations!

**How will you strengthen the presentation of the three core concepts of Geoliteracy: Interactions, Interconnections and Implications?:** AP Environmental Science classes are on-track to design and possibly implement a California Natives garden on the campus of Petaluma High School.

**What revisions, if any, will take place in your fieldwork activities involving the Petaluma River/Wetlands? Curriculum should include a minimum of three outdoor watershed educational experiences.:** We'll be using the new water testing kits, multiple times a year. We'll be testing at multiple sites: Brown Ct access to Thompson Creek, McNear Elementary access to Thompson Creek (in conjunction with McNear students), and B street access to the Petaluma River. AP Environmental Science students will also be testing water at DYHC, possibly with the assistance of a docent.

**Are you revising the Content Standards Addressed in your curriculum? If yes, please describe.:** Yes, as addressed in the Next Generation Science Standards.

**Are you strengthening or revising the reading and writing tasks in your curriculum? If yes, please describe.:** Yes, we are incorporating the new "Liquid Gold: California's Water" curriculum from EEI.

**Are you revising how students attain CA Core Curriculum Skills through the integration of media sources and skills and collaboration? If yes, please describe.:** Next year we will have 1:1 devices for ALL students (iPads) and BYOD wi-fi as well. We should be able to use the devices to create videos and intend to encourage students to submit entries to next year's county competitions.

**Will revise how students demonstrate their acquisition of new knowledge and skills? How will students present their learning to the public? If yes, please describe.:** We should be able to use our new 1:1 devices to create videos and intend to encourage students to submit entries to next year's county competitions.

**For the 2015-16 school year we have added an online evaluation for students to participate in pre- and post-curriculum implementation. How will you incorporate this evaluation into your implementation plan?:** As our curriculum is incorporated throughout the school year, we would be happy to have students participate in your pre-curriculum evaluation in August 2015 and your post-curriculum evaluation in May or June 2016.