



Environmental Health in Our Watershed

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Watershed Classroom

Content Standards Addressed:

NGSS HSL2,
Ecosystems: Interactions,
Energy, and Dynamics # 1, # 2, #6

Reading Tasks: What Primary Documents and Informational Texts will be read/analyzed?

CA Core Curriculum

Maps of the Petaluma River and Russian River watersheds that we analyze during class. Text Book Chapter 40: Population Ecology Others TBD, such as Newspaper articles regarding river impacts, ecology, and restoration.

Writing Tasks: What kinds of writing tasks (Arguments and Drawing Evidence) will be required?

CA Core Curriculum

Students will read and then deconstruct two text sections within the primary document listed above. While “deconstructing the text” they will be writing to paraphrase, identify central ideas or conclusions, and identify gaps, inconsistencies or questions they have about the information. Finally, they will use the information they deconstructed and organized from the text to write an essay about an aspect of the Petaluma River ecosystem.

Collaboration: How will students collaborate, communicate and organize together? (Speaking and Listening/Discussion)

CA Century Core Curriculum Skills

Students work in teams to interpret watershed maps, discuss and report findings. Students communicate information to the city planners/council. Students will work in

small groups to plan, research, and present findings on populations within the Petaluma River.

Integration of Media Sources and Skills: How will students use technology for research, communication, documentation and/or presentation purposes?

CA Core Curriculum Skills

Students will use internet based sources to research different issues of human activity and development that impact the Petaluma River. For example a current issue is the expansion of highway 101 and construction of the Petaluma River freeway bridge. They will use internet-based spreadsheets and documents to manage and analyze data and create a presentation of their findings.

CA Core Standards based Assessments: How will students demonstrate their acquisition of new knowledge and skills?

Assessment of understandings will be achieved through evaluation of quality and reporting of findings in a number of ways:

- a) Students will report out on their findings to the freshmen classes who studied the river earlier in the year.
- b) Students will report/present their findings to the city planners/council.
- c) Additional reporting of findings may be submitted to the *Argus Courier*.

Presentation of Knowledge/Student Public Forum: How will students present their learning to the public?

CA Core Curriculum Skills

Students will report/present their findings to the city planners/council. Additional reporting of findings may be submitted to the *Argus Courier*.