**Educator Guide**

**FOR USE IN**
- classrooms
- environmental education programs
- afterschool programs
- museum, aquarium, and zoo programs

**OVERVIEW**

*Saving the Bay* educational resources were created with input from San Francisco Bay Area teachers and informal education organizations that offer field trips and programs about San Francisco Bay. Twenty-six video segments from the series were selected that align with the work of these organizations and correlate with California content standards in science and history/social science for grades 4–12. Twenty educator viewing guides provide information and activities to support the use of the media with students.

**HOW TO USE THE ONLINE VIDEO SEGMENTS AND VIEWING GUIDES**

The online video segments are not meant to be used as an isolated activity. The accompanying viewing guides offer questions, activities, ideas, and resources to actively engage students in viewing the media and thereby create a meaningful learning experience. Each viewing guide contains the following sections:

- an overview of the video segment/s
- associated content standards
- topic background
- pre-viewing questions or activities
- focus questions for viewing or a viewing activity
- post-viewing discussion questions and activities
- a list of additional resources that includes related websites and lesson plans
- a transcript for the video segment/s

Test students’ prior knowledge with pre-viewing questions or stimulate their thinking with a pre-viewing activity. Use the focus questions for viewing or the viewing activity to keep students actively engaged during the playing of the media. Post-viewing discussion questions and activities offer students a guided opportunity to think more deeply about a topic. Use the segment transcript with English language learners to scaffold their viewing of the media.

The viewing guides have been written for three grade groupings: 4–5, 6–8, and 9–12. Questions and activities in the guides may be adapted for other grade levels.

For additional ideas and tools, check out these other resources on [www.kqed.org/education](http://www.kqed.org/education):

- Using Video with English Language Learners
- Why Use Multimedia in Science Education?
- How to Use Science Media Effectively for Enhancing Teaching and Learning
- Science Multimedia Analysis
- Framework for Teaching Media Literacy: Social Studies Integration
  - Message
  - Audience
  - Production
WAYS TO USE RESOURCES FROM SAVING THE BAY

- in science and history/social science classes to cover content with a local perspective
- as a pre-field trip activity
- for review after a field trip
- in informal education programs
- professional development
- employee training

FOCUS QUESTIONS FOR VIEWING

Several themes, listed below, run through all four episodes of *Saving the Bay*. Use the discussion questions under each theme to further explore the theme:

**Human Impact on the Environment**
- How did the California Indians that lived in the Bay Area interact with and affect their environment?
- What were the biggest impacts that early settlers had on the environment?
- How did the establishment of ranchos contribute to the introduction and spread of nonnative grasses?
- What role did agriculture play in the engineering of the Delta?
- Why did the development and growth of cities lead to the destruction of Bay Area wetlands?
- How does our need for fresh water impact the ecology of the Bay?
- What kinds of impacts are humans having on the Bay today? Are there any examples of these close to your school or home?
- What have we learned as a society over the past couple of centuries that has changed the way we use the Bay?

**Immigration**
- Why did people move to the Bay Area in the 1800s?
- What kinds of jobs were available?
- How did minority groups aid in the growth of industry and the economy in the Bay Area?
- What conflicts arose between different groups of people? Who were the groups involved? What events or circumstances led to these conflicts?

**San Francisco Bay As a Resource**
- What resources does the Bay provide for us?
- List as many jobs as you can think of that rely on the Bay.
- How would our lives be different if the Bay didn’t exist?
- How is our management of resources (water, fisheries, etc.) different now from 200 years ago? 100 years ago? 50 years ago?

**The Conservation Movement**
- List and discuss five major factors that led to the need for a movement to protect San Francisco Bay.
- What prompted the three women from Berkeley to create an organization to save the Bay?
- What hurdles and obstacles did the women face in their efforts to save the Bay? How did they overcome these obstacles?
- Were there other conservation movements occurring in the 1950s? What were they?
Following is a limited list of curricular resources that complement the Saving the Bay series and educational materials. Additional resources, including online lesson plans, activities, images, and informational websites, are included in each of the Saving the Bay viewing guides.

**Gold Rush! Curriculum**, Oakland Museum of California  
http://museumca.org/goldrush/getin-curr.html  
Delve into the Gold Rush with lesson plans developed for grades 4, 5, 8, and 11.

**Water History Teachers Activity Guide**, Santa Clara Valley Water District  
http://www.valleywater.org/Programs/WaterHistoryTeachersGuide.aspx  
Learn about water history in California and the Santa Clara Valley with this timeline-based activity for grades 4–12.

**Watershed Curriculum**, Save the Bay  
http://www.savesfbay.org/watershed-curriculum  
This curriculum for middle and high school students contains 29 experiential activities that focus on the ecology, evolution, and geology of and the history of human impact on San Francisco Bay.

KQED Education engages with community and educational organizations to broaden and deepen the impact of KQED media to effect positive change.  
www.kqed.org/education

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**CREDITS**

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KQED thanks our local broadcast underwriters: the Golden Gate National Parks Conservancy, Blach Construction, and Fisherman’s Wharf Community Benefit District/Port of San Francisco.
Twenty viewing guides and 26 video segments are available online from Saving the Bay (www.education.savingthebay.org). (Four of the viewing guides cover two or more video segments.)

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