

Flipped IN-CLASS Lesson Plan Template

Topic or concept:

The Environmental Effects of the Gold Rush

Basic objectives for preparatory work:

At the conclusion of the pre-class activity, students should be able to:

- Name and define the various types of gold mining techniques used during the Gold Rush.
- Predict the possible environmental effects of the Gold Rush on the environment.
- Determine the actual effects of the Gold Rush on the environment.

Advanced objectives for classwork & after class work:

At the conclusion of the in-class activity, students should be able to:

- Compare the various effects the Gold Rush on the environment.
- Analyze the effectiveness of nineteenth century efforts to mitigate the effects of the Gold Rush on the environment.
- Examine the continued effects of the Gold Rush on the environment to the present-day.

At the conclusion of the post-class activity, students should be able to:

- Propose present-day solutions to deal with the continued effects of the Gold Rush on the environment.
- Assess and evaluate the effectiveness of solutions proposed by a peer to deal with the present-day effects of the Gold Rush on the environment.

	Time planned	Activity and rationale	Resources needed
Beginning of class period	15 mins	Hook Activity: Effects of mining speed game to review material learned in pre-class activity.	<ul style="list-style-type: none"> • Challenge cards with questions • Whiteboard markers

	Time planned	Activity and rationale	Resources needed
Middle of period	20 mins	Visual image analysis activity to compare the environmental effects of the Gold Rush.	<ul style="list-style-type: none"> • Slideshow or printed placards of these images • https://calisphere.org/exhibitions/14/items/ark:/13030/tf1m3nb1f7/
Middle of period	25 mins	Cause and effect activity where students analyze the effectiveness of nineteenth century efforts to mitigate the effects of the Gold Rush on the environment.	<ul style="list-style-type: none"> • Cause and effect strips • Matching worksheet • Effectiveness evaluation scale
End of period	15 mins	Small group discussions and presentation of findings about the continued effects of the Gold Rush on the environment to the present-day.	<ul style="list-style-type: none"> • Question prompts

Flipped AFTER CLASS Work Plan Template

Advanced learning objective	Activity and rationale	Instructions to students
<p>At the conclusion of the post-class activity, students should be able to:</p> <ul style="list-style-type: none"> • Propose present-day solutions to deal with the continued effects of the Gold Rush on the environment. • Assess and evaluate the effectiveness of solutions proposed by a peer deal with the present-day effects of the Gold Rush on the environment. 	<p>Students prepare a practical proposal for a present-day solution to deal with the continued effects of the Gold Rush on the environment. Students will pitch their ideas on Flipgrid. They will assess the effectiveness of the solutions proposed by their peers and provide feedback via Flipgrid.</p>	<ul style="list-style-type: none"> • Create a practical proposal for a present-day solution to deal with the continued effects of the Gold Rush on the environment. Create graphs, charts, and visuals to demonstrate your point. • Present your proposal to your peers in a 3-minute video pitch via FlipGrid. Use graphs, charts, and visualize to make your point. • Watch the video pitches of at least four of your peers on FlipGrid. • Assess and evaluate the effectiveness of the solutions proposed by at least two of your peers deal with the present-day

Advanced learning objective	Activity and rationale	Instructions to students
		<p>effects of the Gold Rush on the environment. Use the attached rubric to assess these presentations.</p> <ul style="list-style-type: none">• Respond via video to the pitches of the two peers you evaluated. Comment both on what you liked about their proposal and on areas for consideration.