



San Francisco Opera's Puccini's *THE GIRL OF THE GOLDEN WEST*

Curriculum Connections

California Content Standards
Kindergarten through Grade 12

SCIENCE

The principals of science used in Faust.

LIFE SCIENCES

Understand what happened to Ramerrez' body when he gets shot; what would have happened to him if he had been hanged.

Research history and use of tobacco and cigars; effect on the body.

What would miners have used to cure illness? How would they have made medicine?

What happens to your body when you fall in love?

What were plants native to Gold Country? What non-indigenous plants are in California now? How did they get here?

What kind of food would miners have found and eaten in Gold Country? How would they preserve it?

THE FIVE SENSES:

Sight, sound, touch, taste, and smell.

What are senses involved in experiencing opera?

How do senses develop and decline as you get older?

The loss of what sense would most diminish experience of opera.

PARTS OF THE BODY:

Identification of body parts important to performing. Ex. Diaphragm, larynx, throat, mouth, etc.

Identification of body parts associated with hearing music, how ears work.

Identification of body parts associated with viewing opera, how eyes work.

PHYSICAL SCIENCES

Research science of finding gold and gold mining, how it interacts with geology.

Research mechanics of mining (levers, pulleys); industrial advances miners would have experienced (like bridges, railroads, steamships).

Research history of gunpowder and dynamite.

Research mining: what is mined and how it is mined.

Research effects of mining on the environment/health.

Research properties of gold; compare to other precious metals.

Find gold on the periodic table.

How is fake gold differentiated from real gold?

Research gold in its different purities; what are karats?

Research weather miners would have had to live through in Gold Country.

How did miners waterproof their tents and their clothes?

What are the different sources of light that would have been used in miners' camp?

ACTIVITIES

Research the scientific advances that immigrants brought to Gold Country.

How did the miners use stars for navigation?