



San Francisco Opera's Donizetti's *THE ELIXIR OF LOVE FOR SCHOOLS*

Curriculum Connections

California Content Standards
Kindergarten through Grade 12

SCIENCE

The principals of science used in The Elixir of Love.

THE FIVE SENSES: Sight, sound, touch, taste, and smell. What happens to you when you take the potion? What does ice cream taste like?

PARTS OF THE BODY: Identification of body parts important to performing. Ex. Diaphragm, larynx, throat, mouth, etc. Dulcamara's demonstration of body parts with his assistant.

LIFE SCIENCE

Placebo effect.

Physical responses to love and hate.

PHYSICS

Sound: Voice, Instruments, Acoustics, Amplification, Recording.

Concepts of Gravity, Time & Space.

Study dynamics of sound waves. Do high or low voices project more? Graph sound waves.

PHYSICAL SCIENCE

How is ice cream made? How is salt used to make ice cream?

Food chemistry: Learn how food scientists constantly adjust recipes, based on cost of ingredients.

History of refrigeration in different places. How long does it take ice cream to melt vs. ice?

What is the nutritional value of ice cream?

Mixing potions.

History of quack medicine. Why did people believe in quack medicine? Do they still believe in it?

Growing of grapes in Napa, fermentation of grapes for wine.

How do engines work? What fueled early cars? Study energy.

Study nature of sound: low vs. high voice parts.