



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

Curriculum Connections

**California Content Standards
Kindergarten through Grade 12**

MATHEMATICS

Create ingredient list for elixirs and ice creams, with measurements.

- How much milk do you need to make ice cream? What other ingredients? What measurements?
- Metric vs. standard measurements of ice cream, elixir.
- What is the calorie count for different kinds of ice cream?

Create word problems using Nemorino's ice cream shop; using multiplication. (ex: How much ice cream do you need if you sell a certain amount in one day?)

How much money does Nemorino make selling his ice cream? What are his expenses?

What is the cost of an ice cream cone, then vs. now? How much did a banana cost in 1914?

What do you need to set up an ice cream shop?

- Business plan for the ice cream shop.
- Graphs of profits for ice cream shop.
- Graph of favorite ice cream flavors.
- How much would you charge for ice cream?
- Practice making change in ice cream shop.

What is the cost of the ingredients in Dulcamara's elixirs?

How much money does Dulcamara make selling his elixir?

Graph the profits for Dulcamara's elixirs.

What would you get paid for joining the military then and now?

Would Belcore or Nemorino have gotten a regular salary?

Explore statistics using casualty charts of WWI.

Timeline of Donizetti's life.

Time signatures of patter song vs. Nemorino's ballad.



SAN FRANCISCO OPERA EDUCATION

Create a scale model of set.

- [Slideshow: San Francisco Opera / Jose-Maria Condemini / Allen Moyer Set Plans and Photos \(2008 Production; same as DVD\)](#)
- [Slideshow: San Francisco Opera / Lotfi Mansouri / Robert Darling / John Coyne Set Plans and Photos \(2000 Production\)](#)

MEASUREMENT:

The Elixir of Love's Use of Standard Units of Measurement in Story & Set Design.

2D & 3D Dimensions: Area, Perimeter, Volume, Scale, Proportion, Ratio.

Weight: Physical, Metaphorical, Balance.

Time: Passage of time (real & theatrical time), times of day (morning, afternoon and night; yesterday, today, tomorrow; time of everyday events such as dinner & bed time), estimation, reading time, age of characters. Opera takes place over the course of two days.

GEOMETRY

As found in The Elixir of Love's character, costume & set design.

Identification of Shapes, Repetition & Pattern of sets, Rhythm & Symmetry.

Create patterns with elixir bottles.

Shape, perimeter, area of gazebo.

Planes (Square, Rectangle, Triangle, Circle) & 3D (Cube, Pyramid, Sphere). Positive & Negative Space, Interior & Exterior Space.

Volume of Dulcamara's elixir bottles, ice cream cones.

NUMBER SENSE

Counting using the production elements and music of The Elixir of Love.

Formulas & calculations: Addition, subtraction, multiplication, division.

More, less, or same as.

Concept of zero (absences, disappearances). Ex. rests/silence in music.

Ordering & sequencing.

Recognizing and creating numerical patterns. Ex. beats, ABA pattern in music.

Survey taking: tallying and graphing.

Predictions.