



San Francisco Opera's Mozart's *THE MAGIC FLUTE*

Curriculum Connections California Content Standards Kindergarten through Grade 12

MATHEMATICS

ATTRIBUTES

Comparisons in The Magic Flute.

Sorting and Classifying: What belongs, what does not belong, and why? Ex. Animals in forest, human characters, characters and objects; magical vs. ordinary.

MEASUREMENT:

The Magic Flute'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.

GEOMETRY

As found in The Magic Flute's character, costume & set design.

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

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

NUMBER SENSE

Counting using the production elements and music of The Magic Flute.

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.

RESOURCES (for costume & set designs)

- [Slideshow: David Hockney set plans](#)
- [Slideshow: Gerald Scarfe set and costume drawings](#)