

CREATING CIRCUIT PAINTINGS AND CONTEMPORARY ART TO ENGAGE IMMIGRANTS, REFUGEES AND K-12 STUDENTS IN STEM

Texas Women and Girls in STEM Summit 2019





About me:

- Bachelors in Engineering (*UT Rio Grande Valley*), M.A.
 STEM Education (*UT Austin*)
- Ceramics student @The Art School- The Contemporary Austin (2017-2019)
- Over 10 years of teaching, leading and creating initiatives and programs at public schools, charter schools, universities and museums across Texas.
- Pre-K to adults
- STEAM Education, Bilingual Education, Museum Education
- www.mariel-robles.com



FINE ART INTEGRATION IN YOUR CLASSROOMS/PROGRAMS



WHAT IS
CONTEMPORARY
ART?
INSTALLATIONS

Superflex, One Two Three Swing! Tate Modern, 2018.



WHAT IS CONTEMPORARY ART? PAINTINGS

Matt Connors, Egypt, Hard G 2015



WHAT IS CONTEMPORARY ART? SCULPTURES

Mark di Suvero *CLOCK KNOT*, 2007



STEM + CONTEMPORARY ART

- Materials
- Math: Dimensions, weight, geometry.
- Chemistry
- Electronics
- Design
- Construction

STEAM & Literacy Program (*Pilot*)

Community partner:

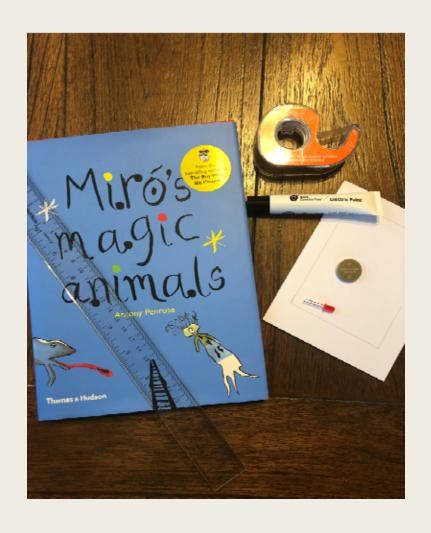
■ Posada Esperanza is a volunteer-driven emergency homeless shelter in east Austin, serving recently-arrived immigrants and asylum seekers from around the world. Houses about 100 residents/ 60 families per year.

Program Goals:

- Provide a safe and nurturing space for mothers and their children to create, learn and build strong relationships.
- Cultivate the love of reading, Art, while learning Math and Science.
- Develop a problem-solving mindset.
- Support and boost formal education.
- Nurture native native language, culture, and traditions.

Project-based STEAM Miró, Shapes (Geometric and Organic) & Circuits

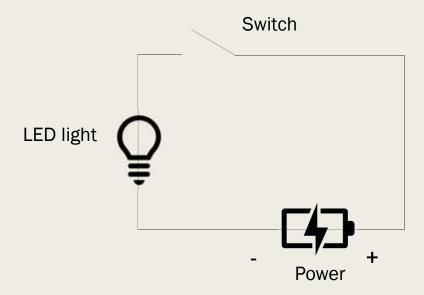
- Art
- Literary component
- Math/Science/Engineering
- Real-life applications
- End product: Contemporary Art using conductive paint.







Circuits, Science & Math







LATIN AMERICA, AFRICA, UNITED STATES





FRACTIONS, SHADES OF GREEN AND ART COMPOSITIONS



CONTEMPORARY ART

- Story about fractions/rooms
- Fractions, geometric shapes
- Colors, shades of green
- Art composition/collage



Henry Matisse, The Snail 1953

Lessons learned



Language



Age difference



Children's ability to stay seated



Designing engaging, culturally relevant projects Artist, work of art, museum exhibition

Math/Science/Technolo gy/Engineering/Social Studies (TEKS aligned)

Children's Literature component

Materials & skills like; drawing, sewing, painting, working with clay, using the ruler, multiplication, etc.

PROJECT DESIGN



Next level:

Visit a...
Museum
Science Center
Park
Government
building
Botanical Garden
Library

IN PAIRS: DESIGN A SAMPLE PROJECT AND SHARE IT WITH THE GROUP.

QUESTIONS

www.mariel-robles.com