



## VIRTUAL ARTREACH S.T.E.A.M. STUDY GUIDE

***A LITTLE HISTORY ABOUT THE TROUPE*** ~ In the 80's a troupe of misfits decided they wanted to see the world. Together they started the "All and Everything Theater", a non-profit Children's Theater focusing on Children's Entertainment, Street Theater and Life-sized Bunraku Puppetry.

In the late 80's on Christmas Day, their theater building (which they built from the ground up), with all their props and puppets, burnt to the ground. Instead of packing it in, they created a new act called The Pink Flamingos (the flame colored bird, standing solidly on one leg and rising from the ashes): this music based troupe has performed for the likes of Sir Richard Branson, Steve Forbes, General Colin Powell... and in venues and events all over the world from India to Thailand, Paris to Austria performing at over 2000+ events in their History.

As people who live and breathe the Arts, Creativity, Community, and Inspiration, they have decided to go back to their roots and share their passion with the world as Artrageous. A Show that focuses on all the things they believe in and everything that got them to this place.

Art, Music, Theater, Singing, Dancing, Audience Interaction...

All on one stage. All done as a team of friends seeing the world and sharing a love of the Arts.

Imagine witnessing the creativity of an artist creating a masterpiece before your eyes in mere moments. Combined with captivating vocals, intricate choreography and exciting music, Artrageous takes you on a visual journey and a high energy ride of inspiration, creativity, and engagement.

Our troupe of artists, musicians, singers and dancers pay tribute to a variety of art forms, icons and musical genres throughout the evening. The result ~ A uniquely entertaining, Masterpiece show culminating in a gallery of fabulous finished paintings.

A signature of the Artrageous Troupe, from the very beginning of their long history, is interaction and engagement... so be prepared to be a part of the show. Each show is as unique as each audience and we can't do it without you!

### ***WHAT IS ARTRAGEOUS?***

The Artrageous Show is a journey through the decades ~ stopping to admire unique icons, famous works of art and music throughout the journey. One of the things that make these portraits different from a portrait you would see in a museum is that you will see artists, live, in their make-shift studios creating paintings in an oversized way ~ accompanied by live music. The artists create each portrait paint at lightning speed and use their hands and brushes to create paintings on a giant scale. (4 feet by 6 feet and sometimes 6 feet by 6 feet.)

Artrageous loves for you to get involved! We are a show about participation. Make sure to download our **Artrageous Activities Kit** so you can join along with the performance.



### ***A GLIMPSE INTO THE LIFE OF ARTRAGEOUS:***

The goal of the performance Artreach is to give the students a glimpse into the life of a touring show and what it takes to be a team and most importantly, for them to take away whatever they want to create, they can!

### **WHAT TO EXPECT:**

#### **1. INTRODUCTION - Live Meet & Greet Pre-Performance (15 minutes)**

- The Roots of Artrageous - as street performers and Bunraku puppeteers in Vancouver
- Our travels - the hard work that has paid off and taken the troupe around the world.
- Introduction to the Artrageous team - the students will get introduced to each member of the Artrageous team and the many hats each professional performer wears.
- Observing a team of professional performers work together to create Artrageous

#### **2. SHORT SHOW - Live or Pre-recorded (Customizable Lengths)**

Virtual Artreach Programs will be hosted by Artrageous through a streaming platform from their Broadcast Studio in the high desert of New Mexico.

- Group activities using the body and cross lateral movement
- Seeing Science, Technology, Engineering and Math at work through the lens of the Arts on a stage
- Participating in the performance through movement

#### **3. QUESTION AND ANSWERS - Live Talk Back (15 minutes)**

- It's not every day that students have the opportunity to chat with professional entertainers. Students are encouraged to ask any questions about the business, about travel, about working together as a team. The students are invited backstage to see the setup, behind the scenes, the tour bus etc.

### **CURRICULUM CONNECTIONS**

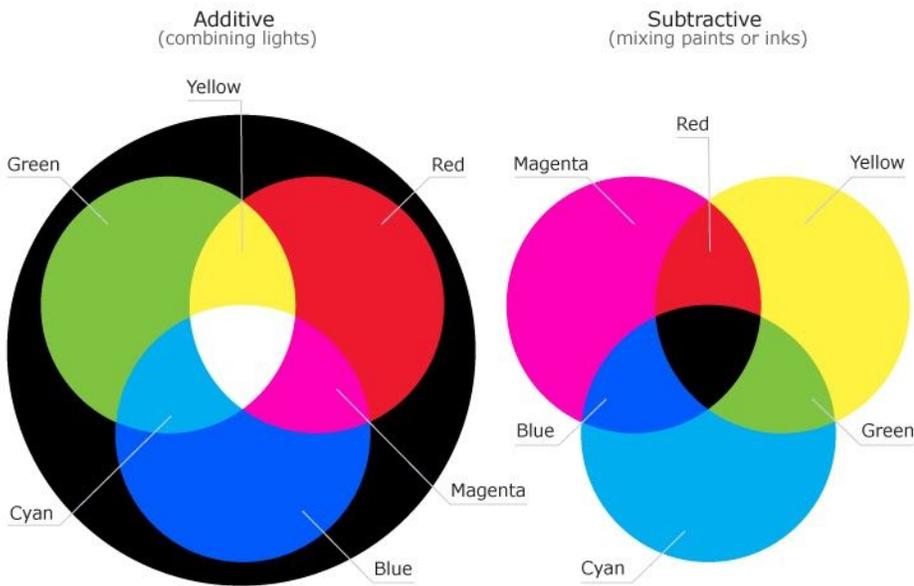
**Science, Technology, Engineering, Arts, Math, Fine Arts, Visual & Performing Arts, Theater Arts, Community Values, Team Work, Public Speaking, Movement, Diversity and Inclusion, Skills For Using Arts in Everyday Life.**

**PROJECTS & QUESTIONS TO REFLECT ON IN THE CLASSROOM:**

**A. Science - How does light affect color?**

<https://www.extremetech.com/extreme/49030-lighting-affects-color>

<https://www.sciencelearn.org.nz/resources/47-colours-of-light>



© Copyright. 2012. University of Waikato. All Rights Reserved.

**Discussion: What happens to the other colors in a room when you fill a room with yellow light? Why?**

**Project: Light Experiments to Share with Your Kids By Aurora Lipper**

Can you make the color 'yellow' with only red, green, and blue as your color palette? If you're a scientist, it's not a problem. But if you're an artist, you're in trouble already. The key is that we would be mixing light, not paint. Mixing the three primary colors of light gives white light. If you took three light bulbs (red, green, and blue) and shined them on the ceiling, you'd see white. And if you could un-mix the white colors, you'd get the rainbow. That's what prisms do. If you're thinking yellow should be a primary color - it is a primary color, but only in the artist's world. Yellow paint is a primary color for painters, but yellow light is actually made from red and green light. Confused? Good, because we're going to spin colors, mix and un-mix colors, and play with the electromagnetic spectrum. Let's get started. **Mixing Colors** Find three flashlights. Cover each with colored cellophane or paint the plastic lens cover with nail polish (red, green, and blue). Shine onto a white ceiling or wall, overlap the colors and make new colors. Leave the flashlights on, line them up on a table, turn off the lights, and dance - you will be making rainbow shadows on the wall! In addition, you can paint the lens of a fourth flashlight yellow. **More About Mixing Colors** When you combine red and green light, you will get yellow light. Combine green and blue to get cyan (turquoise). Combine blue and red to get magenta (purple). Turn on the red and green lights, and the wall will appear yellow. Wave your hand in front of the lights and you will see cyan and magenta shadows. Turn on the green and blue lights, and the wall turns cyan with yellow and magenta shadows. Turning on the blue and red give a magenta wall with yellow and cyan shadows. Turn on all colors and you will get a white wall with cyan, yellow, and magenta shadows – rainbow shadows!

## B. Science - What makes something glow?

<https://www.scienceabc.com/eyeopeners/why-do-certain-things-glow-in-the-dark.html>

<https://www.wonderopolis.org/wonder/why-does-a-black-light-make-things-glow>



## Discussion - How does a lighting bug glow?

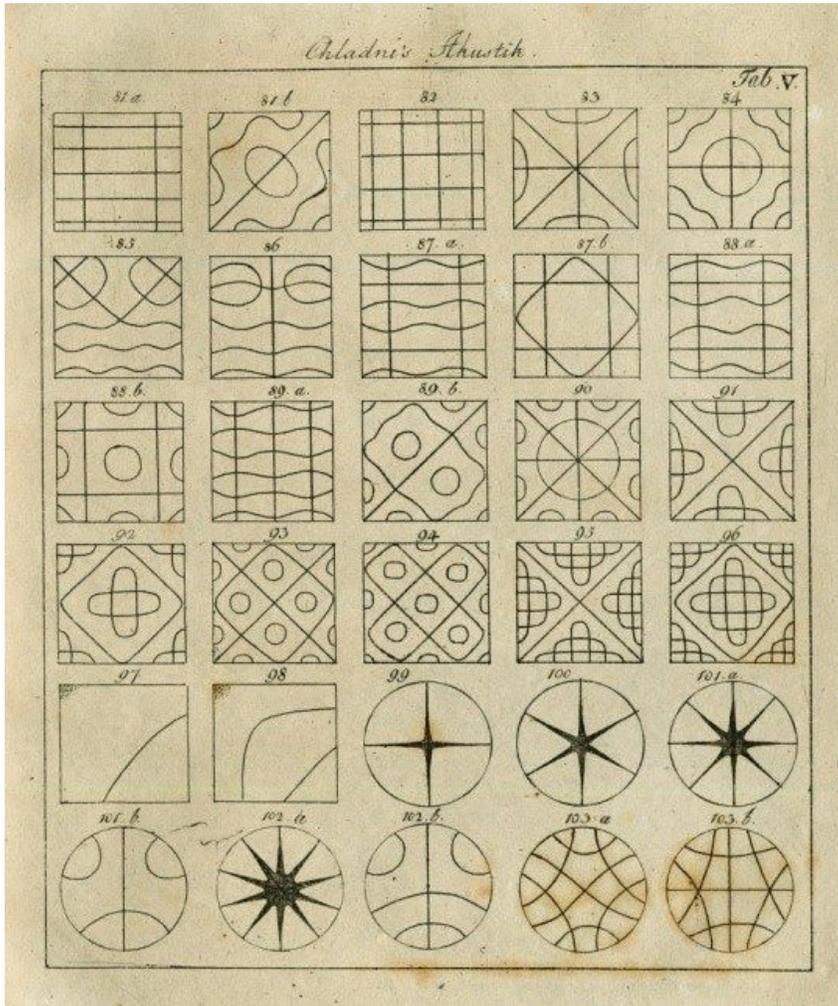
### Project: Easy Glow Slime

#### You'll need:

- 1 Cup Epsom Salt (magnesium sulfate)
  - 1 Cup warm water
  - 1 Cup liquid glue (clear glue makes a nice translucent slime)
  - 2-3 Tablespoons of glow paint or 1 teaspoon of glow powder
- Dissolve the epsom salt in the warm water. Stir in the glue. Stir in the glow paint/powder

## C. Technology - Can you see sound?

<https://www.boogeylights.com/physics-of-light-and-sound-for-kids/>



**Discussion: How would you create a musical instrument using light?**

### Projects: Seeing Sound

#### You'll need:

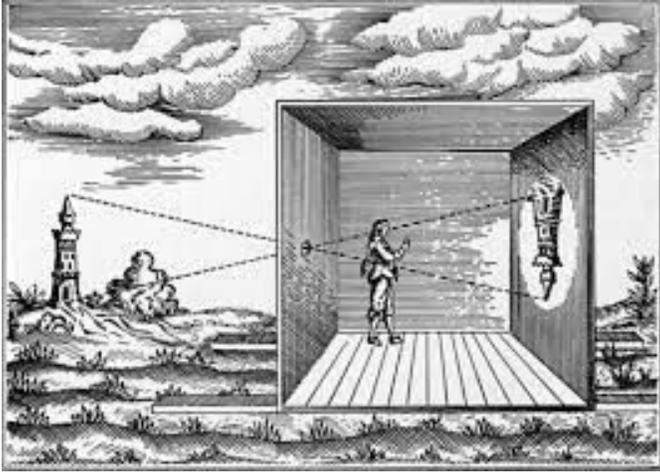
- A glass bowl
- Parchment paper
- Salt - if you color it with food coloring you'll be able to see it better
- A bluetooth speaker
- A tuner (or a tuner app on your phone)

Put your speaker inside the bowl and cover it with parchment paper. Hold it on with a rubber band. Pour a good amount of the colored sand on the parchment paper. Experiment with different notes on your tuner (app) and see what patterns are formed.

**D. Engineering, Math - How can you use light to create an image?**

<https://www.mathsisfun.com/physics/light.html>

[https://kids.kiddle.co/Camera\\_obscura](https://kids.kiddle.co/Camera_obscura)



**Discussion: How would an artist use a camera obscura?**

**Project: Create your own Camera Obscura**

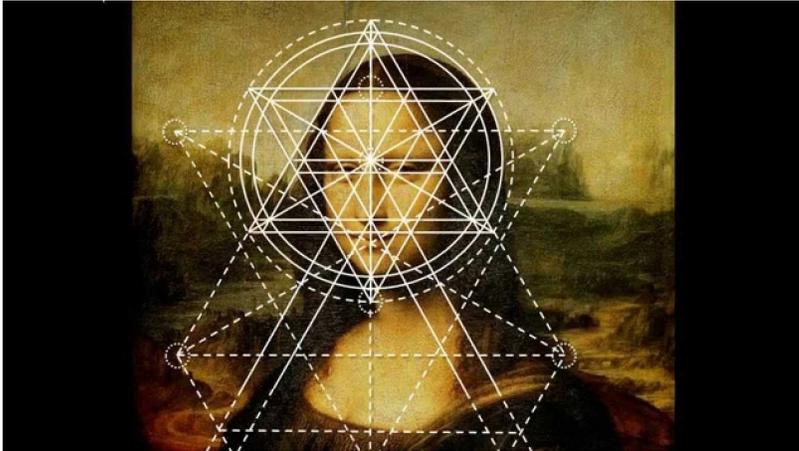
**For Instructions follow this link:**

<https://kids.nationalgeographic.com/explore/books/pinhole-camera/>

**E. Math, Art - How do Artists use math to create their paintings?**

<http://monalisa.org/2012/09/12/leonardo-and-mathematics-in-his-paintings/>

<https://kidzfeed.com/mona-lisa-facts-for-kids/>



**Discussion: What other artworks have you seen or can you find that use geometry?**

**Project: Create a mandala**

**You'll need:**

- Paper
- Pencil
- Protractor
- Compass

Start with a simple circle and experiment with overlapping circles. Keep connecting the circles until you get to the size you want. Fill in the shapes with different designs and shapes.

**F. Art - How do certain colors affect your emotions?**

<https://www.smithsonianmag.com/smithsonian-institution/ask-smithsonian-how-do-colors-affect-our-moods-180957504/>

<http://www.arttherapyblog.com/online/color-psychology-psychologica-effects-of-colors/#.Xf03Y5NKhE4>



## HOW COLORS AFFECT YOUR BODY

<p><b>Red</b></p> <ul style="list-style-type: none"> <li>- stimulates the adrenal gland and the neurons</li> <li>- too much exposure causes stress</li> <li>- provokes anger and frustration</li> <li>- stimulates heartbeat and breathing</li> <li>- associated with energy</li> <li>- enhances human metabolism</li> <li>- increases respiration rate</li> <li>- raises blood pressure</li> </ul>	<p><b>Blue</b></p> <ul style="list-style-type: none"> <li>- soothing effect on human mind</li> <li>- slows human metabolism</li> <li>- produces a calming effect</li> <li>- too much exposure causes depression</li> <li>- suppresses appetite</li> <li>- materials in blue color appear to be light in weight</li> </ul>
<p><b>Yellow</b></p> <ul style="list-style-type: none"> <li>- helps to release Serotonin, causing a happy mood</li> <li>- too much exposure causes fatigue</li> <li>- speeds up metabolism</li> <li>- babies cry more in yellow rooms</li> <li>- evokes pleasant, cheerful feelings</li> </ul>	<p><b>Green</b></p> <ul style="list-style-type: none"> <li>- has soothing effect on the eyes</li> <li>- relaxes the body and alleviates stress</li> <li>- improves vision</li> <li>- has a healing and hygienic effect</li> </ul>
<p><b>Purple</b></p> <ul style="list-style-type: none"> <li>- develops spirituality and deep thoughts</li> <li>- intensifies sexual activity</li> <li>- evokes gloom and sad feelings</li> <li>- causes frustration</li> </ul>	<p><b>Orange</b></p> <ul style="list-style-type: none"> <li>- stimulates mental abilities</li> <li>- increases appetite</li> <li>- increases oxygen supply to the brain</li> <li>- stimulates mental activity</li> <li>- stimulates appetite</li> </ul>
<p><b>Gray</b></p> <ul style="list-style-type: none"> <li>- unsettles</li> <li>- creates expectations</li> </ul>	<p><b>Pink</b></p> <ul style="list-style-type: none"> <li>- reduces anger and anxiety</li> <li>- denotes feminine qualities</li> </ul>
<p><b>White</b></p> <ul style="list-style-type: none"> <li>- has a calming effect</li> <li>- represents a successful beginning</li> </ul>	<p><b>Black</b></p> <ul style="list-style-type: none"> <li>- gives the feeling of perspective and depth</li> <li>- makes people wearing it look thin</li> </ul>

healthinfocus.net

**Discussion:** How do the different artworks below affect you?



**Pablo Picasso**



**Georgia O'Keeffe**



**Gustav Klimt**



**Claude Monet**



**Thomas Wilmer Dewing**



**Juan Sanchez Cotan**

**Project: Create a Piece of Art Focusing on Color**

**You'll need**

- Pastels
- Watercolors
- Paint Brushes
- Watercolor Paper and Sketch Paper

Choose a color theme based on your current mood. Use pastels to make your painting. Don't worry about using any images or any hard lines. Work the colors into each other.

Soak a piece of watercolor paper in a low bin of water. After a minute take it out and pat it dry with a paper towel. Choose watercolor colors that reflect what you want your mood to be. Don't worry about using images or any hard lines. Experiment with the colors bleeding into each other. This piece will be very dream-like. Observe how you feel after your painting.



## VOCABULARY WORDS:

**Phosphors** - a material that absorbs energy and stores it up. It releases the energy in the form of light.

**Camera Obscura** - Latin for dark chamber. A darkened box with a lens that projects an image from the outside of the box onto the inside. The first step in the development of the camera.

**Luminescence** - emission of light by certain materials when they are relatively cool.

**Lumen** - is the **SI derived unit** of **luminous flux**, a measure of the total quantity of **visible light** emitted by a source per unit of time.

**Chladni Patterns** - Named after Ernst Chladni a Hungarian Physicist, they are created with a technique using vibrations and different tones on a rigid surface to create patterns.

**Landscape** ~ the depiction in art of landscapes, natural scenery such as mountains, valleys, trees, rivers, and forests.

**Portrait** ~ A representation of a particular individual.

**Still Life** ~ A painting featuring an arrangement of inanimate, everyday objects.

**Real Life** ~ figures and scenes are depicted as they are experienced or might be experienced in everyday life.

**Horizon Line** ~ In painting perspective, it's the level your eyes are at, an imaginary line to which things recede.

**Vanishing Point** ~ The point at which parallel lines receding from an observer seem to converge.

## POST-PERFORMANCE PROJECTS:

***CREATE! There is never a wrong answer in Art!***

1. With a partner ~ Draw a portrait of the person sitting in front of you. Don't lift your pencil!
2. Draw a self portrait from memory.
3. Look at a portrait of a famous icon. Draw a picture of the person UPSIDE DOWN!
4. Imagine the portrait to be just shapes. Draw the image as only shapes. Eyes are ovals, the nose is an inverted triangle, lips are a boat on the sea...
5. Use different colors for things that aren't naturally that color? Ie. A blue sun, orange water...What does your final piece make you feel like?
6. Create a new color by mixing unexpected colors together. What new colors can you create?

## WRITE TO US!

ARTrageous would love to hear from you and see your art. Send us your artwork so we can post it on our website!

ARTrageous @ Lauri Francis  
137 Saddle Spur Trail  
Tijeras, NM 87059