

## **Cell Phone Photography and Science**

**Expert:** Sandy Brooks, Photographer

**Targeted Grade Levels:** Grades 5 through 12 would probably benefit the most.

**Availability:** Program requests must be made at least two weeks prior to your desired date. When enrolling, please let us know possible dates and times you'd like to schedule your interaction.

### **Program Description:**

Art and Science are two sides of the same coin. One is dependent upon the other in so many ways. In this class, you pick the science topic and we will explore it with cell phone photography. Physics of light is a natural connection to photography but what about photographing motion or matter, chemical reactions, the Fibonacci sequence or explore proportions in digital post processing of photos? What about photographing and creating a montage of contemporary social events? Nothing is off limits.

The program's conversation will be guided entirely by the topics you wish Sandy to address and the questions your students want Sandy to answer. The class will be adjusted to the level of the students whether elementary, middle or high school. Your topic preferences and advance questions are due to us no less than three days prior to your scheduled interaction.

### **Program Objectives:**

Participants will:

1. Explain the principle of science they are trying to capture visually
2. Brainstorm at least 3 different ways to visually express the principle
3. Create an image that visually captures the principle.

### **Program Format:**

**Overview of program:** This program will allow students to explore the artistic medium of photography with the tool right in their hands. By using photography to creatively explore a principle they are currently studying in other classes, students will reinforce the principle in the process of creatively exploring it.

**Heart of the program:** Once the specific principle from the sciences or social studies is identified, the class will be provided picture(s) to download and “process” on their cell phones in an app called Snapseed. Once the photographic principles are explored, the students will identify at least three ways to photograph it. Together we will create one image and the students can create one of their own after the program.

**Conclusion:** Reemphasizing important points of

1. How to use photography to creatively explore a topic
2. How to process a photograph to make a point
3. The principle from science/social studies being explored

Final questions from students

**Cost and Payment:** \$150—Payment may be made via credit card or school district purchase order and must be received prior to the scheduled program date. Members receive a 20 % discount on our Point to Point programs.

**How To Connect for the Program:**

1. Via Zoom or other similar desktop videoconference software
2. Via h.323 Videoconference

When you enroll for the program, please let us know your preferred method of connection.

**Cancellation Policy:** Once a date and time has been scheduled for your interaction, you can cancel or reschedule without penalty within 24 hours. After 24 hours and up to 7 days before your scheduled program, we'll refund 50% of your original fee. Within 7 days of the scheduled date, we do not offer a refund. Should an uncontrollable emergency occur (i.e.: snow day, etc.), we will work with you to reschedule the program for a new date and time but should that prove impossible, we will refund 50% of your original fee. Should our program expert or other circumstance force a cancellation on our end from your original date, we will work with you to reschedule the program for a new date and time that works for you, or we will refund your purchase in full.

**Featured National Standards:**

The following National Standards for Visual Arts Education are referenced in this program:

NA-VA.9-12.3--Choosing and Evaluating a Range of Subject Matter, Symbols, and Ideas Students reflect on how artworks differ visually, spatially, temporally, and functionally, and describe how these are related to history and culture.

NA-VA.9-12.5--Reflecting Upon and Assessing the Characteristics and Merits of the Work of Others

Students correlate responses to works of visual art with various techniques for communicating meanings, ideas, attitudes, views, and intentions.

NA-VA.9-12.6--Making Connections Between Visual Arts and Other Disciplines

Students compare the materials, technologies, media, and processes of the visual arts with those of other arts disciplines as they are used in creation and types of analysis.