

PROGRAM

The Art & Science of Glass

ARTIST NAME

Cassandra Argeros



AVAILABLE FORMATS

- Performance
- Single Workshop
- Multi-Session Residency Workshop

GRADE LEVELS

- Pre-K
- K – 2nd
- 3rd – 5th
- 6th – 8th
- 9th – 12th

MAX NUMBER OF PARTICIPANTS

In-Person: **20**
Virtual:

PROGRAM LENGTH 45 minutes

PROGRAM DESCRIPTION

Explore the beauty of colored glass. This residency is tailored for students of all ages. We will investigate the characteristics of glass and its many applications, in and out of this world. Students will gain a greater understanding of the molecular structure of glass and how temperature, time and chemical elements dictate the appearance, texture and strength of glass. These observations will be the platform for their one of a kind glass work of art.

CURRICULUM STANDARDS

This program supports these NYS or Next Generation Learning Standards:

- 2-PS1-4: Matter and its Interactions
- 3-5-PS1-3: Matter and its Interactions
- MS-PS1-4: Matter and its Interactions
- HS-PS1-5: Matter and its Interactions

Contact Arts for Learning WNY for more information.
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EDUCATIONAL OBJECTIVES

Students will investigate noncrystalline solids. They will explore how temperature affects these solids. They will gain an understanding of glass, its varying states and stresses.

2-PS1-

LOGISTICS/EQUIPMENT

Art room/science lab

VOCABULARY

Amorphous solid- any noncrystalline solid in which the atoms and molecules are not organized in a definite lattice pattern.

Anneal- to allow hot glass to cool slowly in order to remove internal stresses.

Strain point- a temperature where the glass molecules move so slowly that no more stress can be introduced. The strain point is usually 100F below the anneal temperature.

Thermal shock- stress caused by a rapid change in temperature.

Coefficient of Expansion (COE)- the rate a material will expand for each degree

POST-PROGRAM ACTIVITIES & RESOURCES

Making Sugar Glass - Strands <https://www.instructables.com/Science-With-Sugar-Making-Sugar-Glass-Strands/>
<https://stevespangler.com/experiments/stained-glass-sugar/>
<https://youtu.be/bpPIV-AOGuA>



ARTIST BIO

Cassondra Argeros has been teaching the visual and craft arts to students of all ages since 2007. She has a Bachelor of Fine Arts from The School for American Crafts, Rochester Institute of Technology Rochester, NY and a Master of Fine Arts in Glass Sculpture from Tyler School of Art, Temple University Philadelphia, PA. She has shown her glass art locally and nationally, most notably at The New York State Museum, Albany NY.

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