

Rules and Guidelines

Summer of STEM

CVUSD Geometric Math Art Contest

July 6-10, 2020

Submit by 11:59pm July 10

<https://docs.google.com/forms/d/1Rgi4gRWkEjuJeCvDv v1PdoxCfU7iYhiOVTD8kokltwU/edit?usp=sharing>

Purpose: The purpose of this event is to inspire CVUSD students to create their own artwork with a **focus on geometric elements**. We want to encourage students to **develop enthusiasm for and expertise in their artistry**, to provide a context to showcase the **connection between math and art**, and to recognize student **achievement in arts and academics**. The Geometric Math Art Fair will be a great opportunity for our students to share their talent, creativity, and vision.

General Information: A student can submit an individual work of art and/or a family group can submit an entry that combines multiple students' works of art into one cohesive project.

Grade Level Spans:

- TK-2
- 3 – 5
- 6 – 8
- 9 – 12
- Family Group

Entry Requirements:

- Entries may be created by individual students or by a family group.
- Students/family group will create an original work of art.
- Individual and family group entries must be created entirely by students. Adults may act as advisors only.
- Individual student entries are judged separately from Family Group entries.
- All entries will contain a title.
- Works of art can be two-dimensional or three-dimensional.
- All entries must be appropriate for the TK-12 setting.
- Any evidence of plagiarism will result in disqualification.

The judging panel will not accept any works of art into the Geometric Math Art Fair that do not adhere to the entry requirements. Works of art containing the following, and/or an allusion to the like, will be subject to disqualification from the Fair:

- Violent/gory images
- Guns, knives, or weapons
- Explicit, inappropriate, foul language
- Drugs, illegal substances, alcohol, or other paraphernalia

Elements of a Good Entry: Each entry should highlight one or more of the following geometric ideas.

- Shape (two-dimensional; simple or complex)
- Solid (three-dimensional)
- Orientation
- Spatial relations
- Lines and/or angles
- Patterns
- Symmetry
- Congruence
- Similarity
- Tessellations
- Polyhedra
- Origami

Additionally, each entry should consider the following elements of art.

- Color
- Form
- Line
- Shape
- Space
- Texture
- Value

The use of rulers, protractors, compasses, or similar tools is allowed and encouraged. Students may also use attribute blocks or similar objects to trace a shape(s) onto their project.

Helpful websites:

Definitions of the elements of art

<http://www2.oberlin.edu/amam/asia/sculpture/documents/vocabulary.pdf>

Images of geometric art (for inspiration only)

<https://www.google.com/search?hl=en&gl=us&tbm=isch&q=geometric%20art&gs>

Paper models of polyhedrons

<https://www.korthalsaltes.com>

Make your own tessellation (paper cutting method)

<http://www.tessellations.org/methods-diy-papercut.shtml>

Origami Fun

<http://www.origami-fun.com/origami-instructions.html>

Modular Origami Diagrams

<https://www.origami-resource-center.com/modular.html>