



2024 Nevada K–12 Statistics Poster Competition
sponsored by the
Nevada Chapter of the American Statistical Association and
the Southern Nevada Mathematics Council



What is the purpose of the competition?

The sponsors of this competition recognize the need to promote and develop quantitative literacy in the elementary, middle, and high school grades. State and national standards include problem solving as a critical strand in the learning of mathematics. This competition provides students with an opportunity to express creativity in the graphical analysis and interpretation of data, produced or gathered themselves in a problem-solving atmosphere. Through the contest, students become problem makers as well as problem solvers.

What is a statistical poster?

A *statistical poster* is a display containing one or more related graphics that summarize data, that examine the data from different points of view, and that answer specific questions about the data.

Who may enter the competition?

All students in grades K through 12 in the State of Nevada are eligible to enter, including public, private, charter, and home schools. Entries are judged in four grade categories: K–3, 4–6, 7–9, and 10–12.

What is the entry fee?

There is no entry fee for this competition.

What is the deadline for submission?

All posters must be **received** by **Wednesday, March 20, 2024**. If mailed, ship to the following address:

Lied Middle School
% E. Harris Rm.616
5350 W. Tropical Parkway
Las Vegas, NV 89130

Multiple entries from the same school may be mailed together. It is recommended that they be shipped flat.

Local entries may be dropped off at Lied Middle School Monday thru Friday between 7:00 a.m. and 3:30 p.m.

Who may I contact with questions about shipping or dropping off posters?

Contact Elizabeth Harris, rathgea@nv.ccsd.net or text my cell @ 702-672-8730

Who will judge the entries?

Statisticians and educators from the State of Nevada judge all entries. All decisions by the judges are final. Prize winners will be announced by March 30, 2024.

What are the judging criteria?

- **Clarity** of the message's demonstration of important relationships and patterns, obvious conclusions, and ability to stand alone, even without the explanatory paragraph on the back. How well is the story told?
- **Technical Aspects (Statistical Correctness)** – age-appropriate use of statistical methods, calculations and interpretation
- **Appropriateness** of the graphics for the data.
- **Overall impact** of the display for eye-catching appeal and visual attractiveness; for its ability to draw in the viewer to investigate the individual graphs, readability, and neatness.
- **Creativity (Design)** – data collection methods, sample size issues, who cares factor



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What prizes are awarded?

For the state competition, each of the four grade-level categories will receive cash prizes of \$72, \$48, and \$24 for the 1st, 2nd, and 3rd places, respectively, based upon rates of participation. Other awards of recognition are also presented. State winners' posters will then be submitted to the national statistics poster competition sponsored by the ASA.

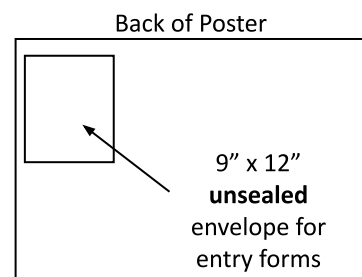
At the national level, first-place winners received \$300, a plaque, a plaque for their school, and grade-appropriate graphing calculators for the students and advisers provided by Texas Instruments. Second-place winners received \$200 and a plaque; third-place winners received \$100 and a plaque; and honorable mentions received plaques.

How may one donate to the poster competition prize fund?

To make a donation, send a check made out to NV-ASA to the following address: NV-ASA, P.O. Box 3311, Sparks, NV 89432.

What are the rules?

- Posters must measure between 18 to 24 inches long and 24 to 30 inches wide.
- Any weight of paper is permitted. Standard poster board is recommended.
- Any layers of paper on posters must be affixed securely. Building a third dimension on the poster with paper or other objects is prohibited.
- Posters must be the original design and creation of the entrants themselves. Computer graphics may be used.
- Subject matter is the choice of the participant(s).
- More than one graph is required in the 4–6, 7–9, and 10–12 categories. *That is, there must be at least two graphs that summarize **different aspects** of the data. Multiple representations of the same information are considered a single graphic. **NOTE: The use of space for graphics should comprise 75% of the poster. All text, except for plot symbols, should be half inch or greater.***
- **An example of the original data, and brief descriptions of method of data collection and purpose of the investigation, must be affixed securely to the back of the poster. (Cite references for published data.) Posters will be disqualified if this information is not taped on the back of the poster.**
- Students may work individually or in teams. For those in the K–3 category, there is no restriction on the size of the team; it may be as large as one teacher's entire class. For other categories, the maximum number of students per team is four. For teams with members from different grade levels, the highest grade level represented determines the entry category.
- **No part of the poster, including the back, must give information that identifies the participant(s), team, or school.**
- **Two copies of the entry form must be completed and placed in an unsealed 9" x 12" envelope affixed securely to the back of the poster. *The entry form must be signed.* (See diagram.)**
- Posters not meeting all of the above requirements will be disqualified.
- **A maximum of 25 posters may be submitted by a single advisor. If more than 25 are submitted, 25 will be chosen at random for judging.**





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What permissions do participants grant?

All posters become property of the competition organizers and will not be returned. By submitting a poster, students give permission for their work to be displayed at conferences and events, in publications and promotional material, and in electronic format on the Internet, by both the American Statistical Association and its Nevada Chapter.

Who should be contacted for further information?

Elizabeth Harris, Math Teacher, Lied Middle School, Las Vegas, NV
rathgea@nv.ccsd.net or text my cell @ 702-672-8730

Are there any suggested reference materials?

- Nevada Chapter of ASA Poster Competition Web page, where one may view past winning posters.
<https://community.amstat.org/nevadachapter/k12postercompetition/info>
- American Statistical Association Poster Competition Web page, where one may view the rubric, see previous winning posters and get more information about the competition.
<http://www.amstat.org/asa/education/ASA-Statistics-Poster-Competition-for-Grades-K-12.aspx>.
- Curcio. F.R. (2001), *Developing Data-Graph Comprehension in Grades K–8*. The National Council of Teachers of Mathematics. www.nctm.org.
- Franklin, Christine, et.al. (2007). *Guidelines for Assessment and Instruction in Statistics Education (GAISE)*. American Statistical Association. <http://www.amstat.org/education/gaise/>.

For more information about the Nevada Chapter of the ASA and to view the previous competition winners (no competition was held in 2021), go to <http://community.amstat.org/nevadachapter/home>.