

# 2021 CT ASA Poster Competition Fact Sheet

*Sponsored by*  
The Connecticut Chapter of the American Statistical Association

**Posters must be received by: April 16, 2021**

## Overview:

This year's poster contest will be held **virtually**. Participants should take a high-quality photograph of the finished poster, and submit this to the email address below. Posters may also be prepared entirely in a digital format (for example using Microsoft PowerPoint or Adobe Illustrator).

Posters will be judged in four grade categories:

- K - 3
- 4 - 6
- 7 - 9
- 10 - 12

Winning schools and students will be awarded certificates as well as monetary prizes. In each category, first place poster will receive \$100, second place poster will receive \$75, and third place poster \$50. (Monetary prizes are awarded per poster, not per individual for team entries.)

Posters may also be submitted directly to the national competition.

## Important dates:

The deadline for submission is **Friday, April 16, 2021**.

An awards ceremony may be held in late April, 2021 in the event that it is safe and feasible to do so. Otherwise, the winners of the contest will be announced via email and on the CT ASA chapter website.

Winning and honorable mention posters will be automatically forwarded to the American Statistical Association National Poster Competition.

## Submission instructions:

Please send the finished poster and a scanned copy of the entry form below to:

[CT.ASA.2021.poster.competition@gmail.com](mailto:CT.ASA.2021.poster.competition@gmail.com)

If you have any questions, please contact us by email at [zhou.fan@yale.edu](mailto:zhou.fan@yale.edu) and [leying.guan@yale.edu](mailto:leying.guan@yale.edu).

Sincerely,

Zhou Fan and Leying Guan  
CT ASA K-12 Outreach Coordinators

## **Virtual Poster Contest Rules**

One separate entry form must be completed and submitted with each poster.

- Any application form which cannot be read will not be included in the judging.
- Any poster which does not have an accompanying application form will also not be included in the judging.

### ***Please read these rules carefully***

- 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 the entire class.
  - For other grade categories, the maximum number of team members is 4 students.
  - For teams with members from different grades, the highest grade determines the entry category.
- Posters must be the original design and creation of the entrants themselves. Subject matter is the choice of the participant(s) or their classmates.
- Except for the K-3 category, more than one graph is required.
- Posters must measure between 18 and 24 inches high and 24 and 30 inches wide. For digital posters, please ensure that the document page size falls within these limits.
- Computer graphics may be used in both physical and digital posters. For physical posters, please ensure that the writing is large enough to be legible in the submitted photo. For digital posters, please ensure that all text is in at least 16 point font.
- An example of the original data and brief descriptions of method of collection and purpose of the experiment should be included as a separate image or text file, and emailed together with the poster submission. References must be cited for published data.
- Be sure the poster itself gives no information that identifies the team or school.

In submitting a poster, students agree that the poster may be displayed at the ASA's Joint Statistical Meetings, featured in its publications, and posted on the ASA or CT Chapter website.

All entries become the property of the sponsors and cannot be returned.

## Guidance on Poster Content

- Students should keep in mind the following goals:
  1. Select a carefully focused question to investigate.
  2. Choose appropriate data to collect in order to answer this question.
  3. Analyze the data thoughtfully, and summarize the data graphically and visually.
  4. Use the data to draw the correct conclusion about the original question.
- A poster must be able to stand alone - without a narrator to tell the story or a report to discuss the data. Not only must viewers understand the individual graphics, but they must also understand the relationships among the graphs, and how the graphs address the central question.
- Focus - the central idea or conclusion should be the most prominent feature of the poster.
- Be consistent. Use graphs consistently to present the same types of data. Consistent use of colors and patterns is important. Use colors with restraint; colors should enhance recognition of the conclusion. If two graphs will be compared, make the size and axis labels consistent.
- Each graph should have its own title, labels, and legend. Units should be correctly marked on axes, and axes should be scaled appropriately.
- Use an informative title. The title may convey the major conclusion to be drawn from the data or ask a question which draws the viewer in.
- The poster is not a report and not an art project. The central focus should be on the graphs, and the graphs should convey the central message. Excessive artwork should be avoided. Data tables and detailed written explanations should not appear on the front of the poster.
- Do not have too many graphs - If the poster contains more than five graphs then it almost certainly has too many. Usually three to five graphs suffice - some show what data were collected and others summarize the conclusions. Each graph on the poster should convey new information about the data that cannot be seen in the other graphs. *It is generally not a good idea to plot the exact same data two different ways (i.e., a pie chart and a bar chart).*
- Sample sizes - Percentages are often an appropriate tool for comparing different groups of data; however it is important to always report group sizes. For example, percentages would be misleading if a poster says that 75% of girls and 60% of boys like pokemon, and omits to report that 40 boys were surveyed, but only 4 girls were.

## **Judging Criteria**

These are the criteria that the judges will use:

- **Clarity of message** - The poster clearly demonstrates the important relationships, patterns, and obvious conclusions from the data. There is a central message and it is presented prominently and clearly.
- **Appropriateness of graphics for the data** - The appropriate data were collected to address the question being studied, and the graphs appropriately present the data.
- **Overall impact** - The poster is eye-catching and visually attractive (uncluttered, neat, and well-organized). The poster is creative and interesting. The poster draws the viewer in to investigate the individual graphics.
- **Creativity** - The poster topic and presentation show originality. The topic draws the viewer in and piques their interest to learn something new from the poster.

You can see examples of past winning posters here:

<https://magazine.amstat.org/blog/2019/08/01/2019posterproject/>

For more information on the national competition, please visit:

<https://www.amstat.org/asa/education/ASA-Statistics-Poster-Competition-for-Grades-K-12.aspx>

**CT Chapter of the American Statistical Association  
2021 Data Visualization Poster Competition**

**Posters must be received by: Friday April 16, 2021**

**ENTRY APPLICATION FORM**

A separate entry form must be completed and emailed together with each poster. Please make certain that the poster itself gives no information that identifies the team or school.

**Grade category: K-3 \_\_\_\_\_ 4-6 \_\_\_\_\_ 7-9 \_\_\_\_\_ 10-12 \_\_\_\_\_**

*For a team entry, the category is determined by the highest grade of any member.*

**Please type (Clarity is absolutely essential!)**

Title of Poster: \_\_\_\_\_

Full Name of School: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

**WINNING TEACHERS WILL BE NOTIFIED VIA EMAIL OR TELEPHONE THEREFORE COMPLETE ALL INFORMATION BELOW:**

**Faculty/Advisor Name \*\*:** \_\_\_\_\_

**email \*\*:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Phone \*\*: (     ) \_\_\_\_\_ - \_\_\_\_\_**

**\*\* is required**

Please give students' name(s) and grade level(s) below.

Attach a separate list of all students if there are more than four team members (Note: This is only allowed for Grades K-3. All other grades must not have more than 4 members within a team.)

For winning posters, the names provided below will be as they are noted on the Award Certificates, therefore make sure full names are given and these names are legible.

1. \_\_\_\_\_ Grade \_\_\_\_\_

2. \_\_\_\_\_ Grade \_\_\_\_\_

3. \_\_\_\_\_ Grade \_\_\_\_\_

4. \_\_\_\_\_ Grade \_\_\_\_\_

I/we verify that this is my/our original work, and I/we understand that it will become the property of the American Statistical Association as a work for hire under the copyright act. In submitting a poster entry, students agree that the poster may be displayed at the ASA's Joint Statistical Meetings, featured in its publications, and included on its website.