

To highlight excellence in our students, Hart County School District is holding the second annual **STEAM Fair** for students in grades K–12.

Students will compete to advance to the district-wide competition.

School level entries in Art and Science will be judged during the school day between November 28 and December 1.

All Technology entries will be submitted and judged one time with the winners being announced at the District STEAM Fair hosted by Hart County High School on Monday, December 18.

Students will be grouped in the following categories:

- K – 2
- 3 – 5
- 6 – 8
- 9 – 12

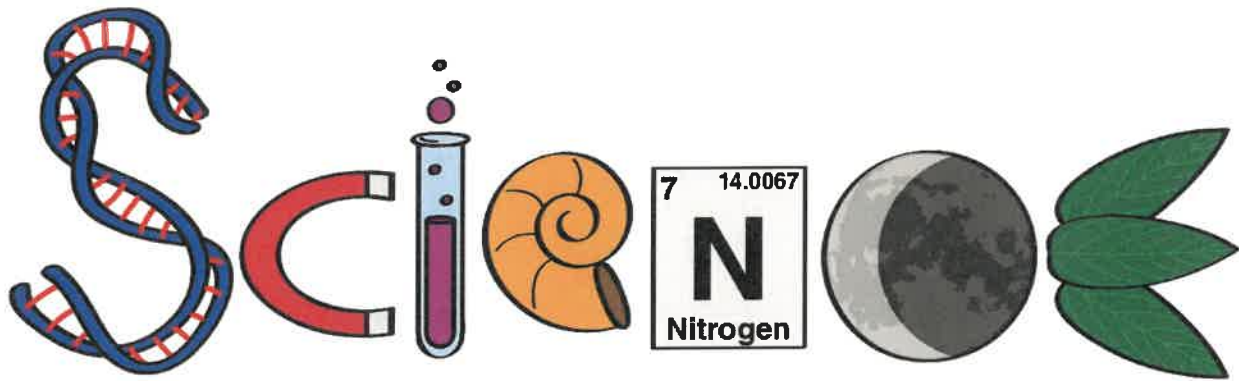
Students may only choose one or two categories to enter:
Art, Science, and Technology.

Students may only submit one entry per category.

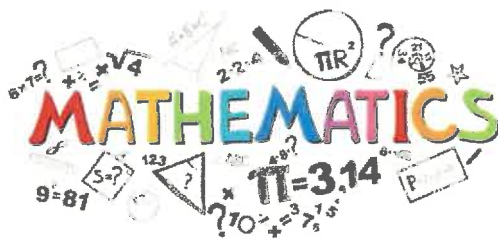
The following pages contain the entry opportunities and explanations for each category.

We can't wait to see our students SHINE!

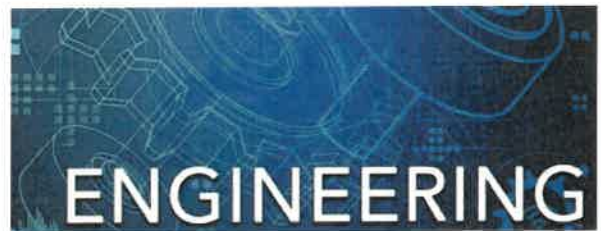




includes



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GUIDELINES:

- Teams are limited to two (2) members
- Includes Demonstrations, Experiments or Projects that involve Math or Engineering
- Students are expected to orally present their demonstration or experiment information
- If your information is on a computer students may want to consider entering a Technology STLP category
- Display Boards are optional for displaying data/information
- Demonstrations are for grades K-2 only
- Experimental projects are for grades 3-12

Science Demonstrations

Grades K - 2

A demonstration exhibits a student interest by way of a personal project. The presentation usually involves an explanation of some sort but does not involve the collection of data. Therefore, there are no data tables or graphs to present.

One classic demonstration is the creation of a model volcano. That can be a very fun activity, but the judges have seen so many volcanoes that making one for a competition is not likely to catch their eye. It's been done way too often. Originality is better.

During a judging interview, a student should show the judges his/her creation and explain how it works. The judges may ask a few simple questions about the project.

To get some ideas for possible demonstrations, Google "science demonstration" or "science activities." There are LOTS of good ideas online, and you can easily find an idea to use or modify. Ask your teacher and school librarian if they have any resources you can use.

Science Experiments

Grades 3 - 12

A scientific experiment is a project where a student collects and presents data. It follows the scientific method in conducting multiple trials with only one variable. Examples might include testing different brands of detergent on grubby tee shirts or measuring if tall kids can run faster than short kids. The data is presented for the judges to review, usually in a table and a graph of some sort.

In a science fair, the students do NOT do any experiments for the judges. Instead, they bring a report on their experiment, which they have already done. Pictures, charts, and graphs are excellent ways of describing what the project involved.

During a judging interview, students will be asked to describe how they did the experiment, what their results were, and how they presented their data. They will be asked a few probing questions about their topic, to see if they've done any research.

Again, there are many good sources of science experiments, science fair experiments, and science projects online. Some are easy to do at home and others are more complex.

Hart County Science Fair - Rules and Procedures

Demonstration Grades K-2

Doing your science demonstration

- Students may work alone or in a group of two.
- All projects must be approved ahead of time by your science teacher.
- Projects may not involve:
 - a. Cruelty to animals
 - b. Risk to other people
 - c. Dangerous substances or equipment

At the science fair

- Judging will consist of interviews, in which students will describe their demonstrations to a series of judges. They may be asked to do the demonstration for the judges. Students will be asked to explain parts of the demonstration
- Students may have a display of information, which could include a trifold board.
- Visual aids may be brought, if they are not dangerous or messy.

Hart County Science Fair - Rules and Procedures

Experiment Grades 3-12

Doing your science project

- Students may work alone or in a group of two.
- All projects must be approved ahead of time by your science teacher.
- Projects may not involve:
 - a. Cruelty to animals
 - b. Risk to other people
 - c. Dangerous substances or equipment

At the science fair

- Judging will consist of interviews, in which students will describe their projects to a series of judges. They will NOT do any experiments for the judges. Students will be asked to explain parts of the experiment, any data or graphs, results and conclusions made by the student(s).
- Students should have a display of data results. This may include one trifold board.
- Visual aids may be brought, if they are not dangerous or messy. Students should NOT bring chemicals, water, or animals.

Hart County Science Fair Scoring Rubric

The main criteria judges should look for, in order of decreasing importance, are :

- 1) Use of scientific method (**most important**). Student conducts a controlled experiment, collecting data and testing one variable with multiple trials where possible. Student presents and interprets data.
- 2) Student understanding of the topic being researched.
- 3) Creativity, thoroughness, and skill of execution.
- 4) Clarity of presentation (oral and visual).
- 5) Teamwork (where appropriate)