AVUHSD STEM Expo 2023

General Entry Rules and Requirements
Entries in **ALL** categories must meet these requirements to be considered for judging.

1. Student Entry

- Students may enter any project they have not previously submitted to an AVUHSD STEM Expo.
- Students must prepare and display a cardboard tri-fold explaining their project. The standard size of 36" tall by 48" wide tri-fold is *recommended*. The tri-fold should include the student's name, grade, school of attendance, and category the student is entering. Additionally, the tri-fold should explain the goal of the entry and the various steps and conclusions that were reached. Pictures, charts, videos, and other visual data are encouraged.
- Students should also make every effort to bring/include the device, prototype, program, or project where feasible and safe to do so. If the physical project cannot be displayed, pictures, videos, or other documentation can suffice.

2. Logbooks

- Logbooks are *required* for each project (group logbooks are acceptable). For students who keep a digital logbook, a printout (hardcopy) will need to be provided for judges to review.
- The purpose of a logbook is to show background research, process of development, description of problems and solutions, and research notes. Logbooks could be anything in hard copy that accomplishes this purpose. Engineering notebooks, lab notebooks, a binder of photos, sketches, designs, etc. could all work.
- For Science Fiction and Health Communication categories, multiple drafts along with notes for editing may be used in place of logbooks. Storyboards are also useful.
- Logbooks may include but are not limited to: data tables, schematics, analysis of data, and corrections based on each iterative attempt.

3. Individual Entries and Team Entries
- AVUHSD STEM Expo allows entries by both individuals and by teams.
- The team size is limited to a maximum of four students.

4. Entry Evaluation and Judging

4.1. Rubrics (Evaluation Forms)

- The judging rubric scale allows for a range of 1 to 5 for evaluation:
    1. Beginning
    2. Developing
    3. Average
    4. Accomplished
    5. Advanced

- There is an additional indicator in the rubric:

ND Not Demonstrated - Used to indicate that although the judge believes that this item applies to the entry, the information was not presented in the slides or discussion.

- Correctly labeled rubrics will be returned to the site.

5. Parental Involvement

- The work done on any entry that is to be judged and evaluated for an award MUST be done only by the student(s).

6. Safety Requirements
6.1. Limitations

- No hazardous substances or devices (e.g. poisons, drugs, firearms, weapons, ammunition, and reloading devices) are allowed.
- No flames, explosives, highly flammable materials, or dangerous chemicals are allowed.
- No live animals, or human/animal parts or body fluids (for example blood, urine, etc.) are allowed.
- Any inadequately insulated apparatus producing extreme temperatures that may cause physical burns is not allowed.
- Any apparatus with unshielded belts, pulleys, chains, or moving parts with tension or pinch points must be inactive and for display only.
- Project sounds, lights, odors, or any other display items must not be distracting. (Exceptions to this rule may be permitted for judging demonstrations. Approval must be given prior to judging.)

6.2. Electrical Power

- If electrical power for the exhibit is required, students must arrange for that power in advance with the Expo Coordinator.

7. Authority

- District and site administrators reserve the right to remove any project for safety reasons or to protect the integrity of STEM Expo and its rules and regulations.

8. Media and Event Promotion

- By participating in the AVUHSD STEM Expo events, students agree to be featured and/or have their entry be featured in promotional materials for the school district. Students and/or parents may opt out of this in writing to the Expo Coordinator.