

STEM Fair - Checklist

Title

- Legible from a distance
- Related to the topic

Purpose

- Appropriate for the age, grade level, and ability of the student
- Contains a question that can be answered through an experiment or description of a technology demonstration (e.g., solve a problem through coding)

Hypothesis (if an experiment)

- Makes a prediction of what will happen in the experiment
- Includes a reason why the student thinks this will happen

Research

- Explains the reasoning behind the prediction made in the hypothesis or a description of a problem to be solved through a technological or engineering demonstration

Sources

- Sources provided with citation

Materials

- Identifies materials needed to recreate an experiment/demonstration, including quantities

Procedures

- Listed in sequential order
- Shows how to construct the experiment/demonstration through diagrams or photographs
- Experiments are controlled - only one variable changes between the control and test groups

Results

- Explains what happened during the experiment/demonstration
- Provides >1 trial, if an experiment
- Shows what happened through the use of pictures, tables, graphs, or charts including a title, labels, and legend as needed

Conclusion

- Summarizes the overall experiment/demonstration
- Determines if the hypothesis was supported or refuted (if an experiment)
- Suggests ideas for improvement or avenues of further study

Presentation

- Display sections are listed in order of the steps of the Scientific Method
- All text and images are cleanly written/typed, cut out, and attached to the display
- Age appropriate use of vocabulary, spelling, grammar, punctuation and capitalization

All content should be written in the student's own words. Parents should support and help the student but the student should be the driver and primary "do'er."