**STEM Fair Project Guide**

Students can either do a science project or an engineering project.

You can either do an individual or group project.

**Science Project**

1. Figure out a question you want to answer.
2. Make a prediction based on what you already know.
3. Design an experiment to test your prediction. Make sure that you can measure what happens in your experiment.
4. Write down what happens in your experiment, include numbers, data and detailed description.
5. Look at your original prediction and see if it was right. See if you answered your question.
6. Make a display showing what you learned. Again, please include the numbers you got from your measurements.

**Engineering Project**

1. ASK: figure out a problem that needs to be solved.
2. IMAGINE: imagine possible solutions to the problem.
3. PLAN: plan a solution, including listing materials and steps.
4. CREATE: follow their plan and test their creation.
5. IMPROVE: figure out what could work better.
6. Make a display to show your work.

**Ideas to help improve your project**

* Take lots of pictures before, during, and after the investigation.
* Keep some sort of data log.
* Display any equipment or materials used during the investigation, if possible.
* Share charts, tables, graphs, visual aids to explain what happened. Try to think outside the box- what are ways to display the learning without a tri-fold presentation board? Ideas include models, PowerPoint presentations, a science journal, a video, a poster, etc.
* Ask a librarian at the Howard County Public Library.

Examples of the STEM Fair Entry Forms are available outside the cafeteria on the PTA bulletin board.

Materials are available on request at the office (tri-folds and markers).