



**Registration: February 2 - February 18, 2021**  
**Projects Due By: Wednesday March 10th, 2021**  
**STEM Fair: Thursday March 11<sup>th</sup>, 2021 @ 7pm**

**Your Group:** This year, students must register as individuals or as a sibling group. No non-sibling groups will be permitted.

**Website:** Visit [saltbrookpta.com/stemfair](https://saltbrookpta.com/stemfair) for up to date info and additional resources.

**Registration:** Complete the [Registration Form](#) by February 18.

**T-Shirts** All participants will receive a 2021 Salt Brook STEM Fair T-shirt. Participants should wear their t-shirts to school or on Zoom for the day of the fair and to the virtual fair in the evening.

**Restrictions:**

- Please do not use projectiles, weapons or animals of any kind in the projects.

**Questions?** Email Diana Ettinger at [ettingers4@gmail.com](mailto:ettingers4@gmail.com)

# Project Requirements

**Project** - Choose and execute a project using one of the following:

1. Scientific Method - ask a question, form a hypothesis and test it with an experiment (see pg. 4)
2. Engineering Design Process - design something to solve a problem (see pg. 5)
3. Coding Method (see pg. 6)

**Presentation** - Students will present their projects by preparing a video consisting of Google Slides with an audio overlay describing the project. **\*\*Important - For security purposes, students should not include last names in their slides/videos, but may include first name, grade and class\*\***

- **Step 1 - Create a Google Slides Presentation:** In lieu of tri-fold boards, all projects will be displayed via Google Slides. Your slides should be a visual representation of your project. The next few pages will specify suggested slide layouts depending on your project choice (Scientific Method, Engineering Process, or the Coding Method)
- **Step 2 - Add Audio and Make It Into a Video:** Using either screen recording on their ipads or iMovie, students will create a video showcasing the slide presentation with an audio overlay of the student explaining each slide and highlighting the key components of the project. Videos should be approximately 1-3 minutes.
  - **Option #1 - Screen Recording** - View our [Video Instructions - Screen Recording for the STEM Fair](#) or read our [Written Instructions - Screen Recording for the STEM Fair](#)
  - **Option #2 - iMovie** - If students are comfortable using iMovie and would like to utilize some of its added video features, this is also an option. All students should have iMovie on their school iPad. Note, students will have to take screenshots of each slide and then put them in iMovie as picture files.
- **Step 3 - Upload Your Video to Padlet:** Upload your video to the [Salt Brook STEM Fair Padlet](#). No other projects will be visible on the Padlet until the night of the fair, but you will receive a confirmation email once your video has been received and reviewed by the STEM Fair committee.

**\*\*All videos must be uploaded by Wednesday, March 10th\*\***

## STEM Fair Night - March 11, 2021 - Schedule of Events

- |                |  |
|----------------|--|
| 7:00 pm        | <b>Welcome and Introductory Remarks</b> - Join via Zoom - link will be sent to the email used for registration prior to the event  |
| 7:05 – 7:45 pm | <b>Viewing of Projects</b> - Students and families are invited to view student videos in our Salt Brook STEM Fair Padlet. All are encouraged to leave comments or ask questions after viewing a presentation. Students should respond to any questions as they appear. |
| 7:45 – 8:00 pm | <b>Conclusion and Recognitions</b> - Join via Zoom - link will be sent to the email used for registration prior to the event   |

# Judging and Awards

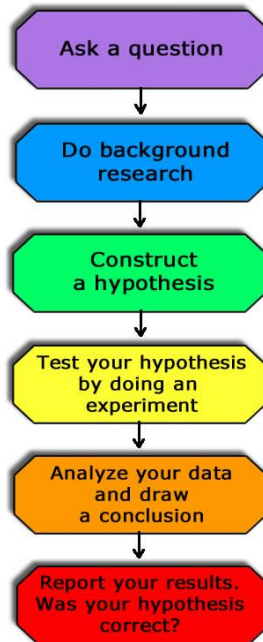
**Judging** - All projects will have an assigned judge who will review the video submission and provide electronic feedback which will automatically be shared with the email address used during registration. There will be no interviews this year.

**Awards** - Trophies will be distributed in a few select process award categories as follows:

- ★ **6th Grade Award** - For individual 6th graders who have participated in the fair for 4 years
  
- ★ **STEM Design Award** - Project with the best use of the STEM design process
  
- ★ **Coding Award** - Project with the best use of computer programming / coding
  
- ★ **Scientific Method Award** - Project with the best use of the scientific method
  
- ★ **Creativity Award** - Project displaying the most creativity or uniqueness
  
- ★ **Green Award** - Project with the best potential environmental impact
  
- ★ **Presentation Award** - Project with the best visual presentation
  
- ★ **Impact Award** - Project with the most interesting or potentially impactful results
  
- ★ **Effort Award** - Project demonstrating an exceptional level of detail or effort

# \*\*\*For Scientific Method Projects ONLY\*\*\*

## The Scientific Method

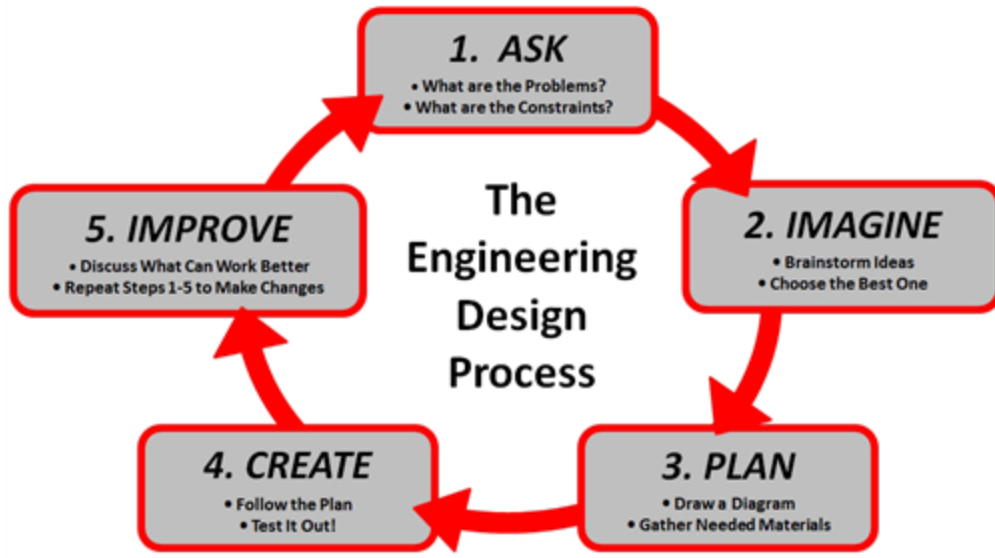


### Suggested Google Slides Presentation Format:

- Slide #1) Title of Project, Name (First Name Only), Grade and Class
- Slide #2) Introduction - brief summary
- Slide #3) Problem - state the question
- Slide #4) Hypothesis - state your prediction
- Slide #5) Variables - A variable is anything that could potentially change the outcome of your experiment. This is highly recommended for 5<sup>th</sup> and 6<sup>th</sup> graders
- Slide #6) Background Research - if applicable
- Slide #7) Materials - state the equipment used
- Slide #8) Procedures / Methods - list the steps you followed / experimental design
- Slide #9) Results - Display any charts, data, graphs, pictures, diagrams, tables or interpretations of your findings
- Slide #10) Conclusion - Describe what you learned

Be sure to organize your presentation how best fits your project. Your projects should be a reflection of your own ideas or work. Be creative, neat and take PRIDE in the work you will be presenting at the fair.

**\*\*\*For Engineering Design Projects ONLY\*\*\***



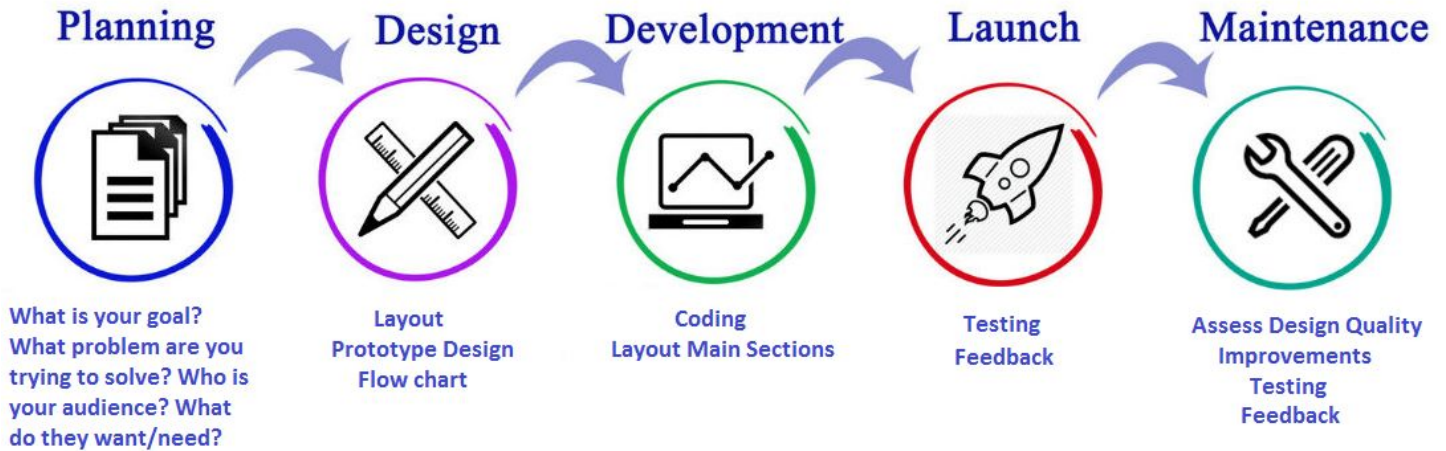
**Suggested Google Slides Presentation Format:**

- Slide #1)** Title of Project, Name (First Name Only), Grade and Class
- Slide #2)** **Problem** - What is the problem you want to solve? Who would it help?
- Slide #3)** **Background Research** - What did you need to learn?
- Slide #4)** **Imagine** - List some of the ideas you brainstormed
- Slide #5)** **Plan** - Show a diagram or blueprint of your design / plan
- Slide #6)** **Create** - Show pictures of the final product, how it was tested, how it was helpful to those who had the need
- Slide #7)** **Improve** - Include what can be done to improve the results
- Slide #8)** **Conclusion** - summary of your project

Be sure to organize your presentation how best fits your project. Your projects should be a reflection of your own ideas or work. Be creative, neat and take PRIDE in the work you will be presenting at the fair.

## \*\*\*For Coding Design Projects ONLY\*\*\*

### Coding Design Process



### Suggested Google Slides Presentation Format:

- Slide #1)** Title of Project, Name (First Name Only), Grade and Class
- Slide #2)** Goal - What is your goal or the problem you want to solve? Who is your audience?
- Slide #3)** Background Research - What did you need to learn?
- Slide #4)** Design - Include the layout or a flowchart documenting your design process
- Slide #5)** Final Code - Showcase the final code and pictures or demonstration of the final product
- Slide #6)** Testing and Feedback - How did your audience respond? What problems did you encounter?
- Slide #7)** Improve - What needs to be fixed? What can be done to improve the product?
- Slide #8)** Conclusion - Summary of your project. Were you able to reach your goal?

Be sure to organize your presentation how best fits your project. Your projects should be a reflection of your own ideas or work. Be creative, neat and take PRIDE in the work you will be presenting at the fair.