

MY STEM PROJECT BOARD

These are the steps to set up your STEM boards for the STEM Fair.

Give your project a title!!!

Step 1:

Explain the Identified the Need

What is the problem you are trying to solve? [Who] need(s) [what] because [why]? Explain the need you have identified, why you have selected it, and why it is important.

Step 2:

Description of the Problem

Through research, explain what you were able to discover about the identified need or problem selected. Possible questions to research:

1. Who is the intended user? How old are they?
2. Do they have any disabilities?
3. How will they be using it?

Possible questions about how it works or how it's made:

1. Is there anything specific that my product needs to do?
2. What materials do I have available?
3. Are there any products out there that already do something similar?

Step 3:

List of Possible Solutions

Jot down all possible solutions. Share any and all ideas even if they seem wild and crazy! You can write them or draw them out.

Step 4:

State the Solution Selected and Explain Why It Was Chosen **(Build Prototype for Display)**

Build your prototype. Draw a sketch of your prototype or insert a picture of your prototype.

1. How did you build your prototype?
2. What materials did you use?

Step 5:

Describe: how you tested your prototype and the changes you made.

Test, evaluate and possibly redesign and rebuild.

- 1. What did your results show?**
- 2. What changes did you make to your design?**

Step 6:

Explain: how the final design solves the identified need.

Answer the questions below to help you prepare for your presentation.

How did you decide on your solution?

- 1. What materials did you use?**
- 2. How did you build your prototype?**
- 3. What changes did you make after testing your prototype?**