

Science & Engineering Fair Display Board Tips

Your display board is important. It's not as important as your judging interviews, but a judge's first impression is what they see on your display board, read in your abstract, and find in your lab notebook.

What should my display board say?

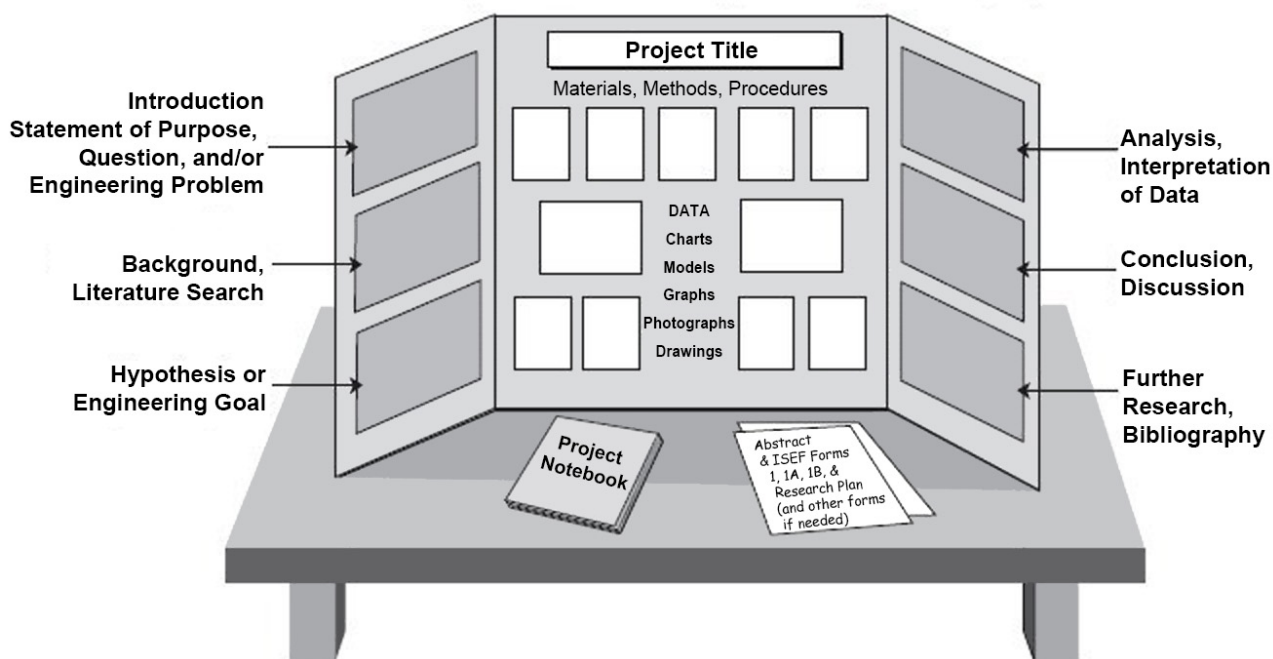
Your display board should do two things. First, **it should tell a story**: what you did, why you did it, how you did it, what you found out, and why people should care. That's the process, the scientific method, engineering design process, or mathematical proof process. Second, your board should **highlight the end result** of your project: your conclusion and its importance, the useful tool you engineered, or the exciting proof that you solved. That's the product, the final result of your project.

Your board should convey both process and product because it's the combination of process and product that make an excellent project.

How can I organize my board so that it tells a story?

Here is a guide to help you organize your board, (modified) courtesy of the Synopsys Championship. This isn't the only way to organize your display board, but it is one that works well for most types of projects.

Material Normally Included on a Typical Project Display Board



How do I make my board look great?

Here are a few practical tips about the mechanics of board layout and design. For more information about board content, layout, etc. https://www.sciencebuddies.org/science-fair-projects/project_display_board.shtml?from=Blog Advanced Design: https://www.sciencebuddies.org/science-fair-projects/project_display_board_advanced_design.shtml

- Use a computer to prepare everything on your board: text, graphs, tables, diagrams, etc. Computers are readily available at libraries and at schools if you don't have access to one at home.
- Putting too much information on the display board is a common pitfall. Remember that people need white space (empty space) in order to make sense of what is on your board. Some people say that a 50/50 balance of filled space and white space is optimal. That might be a bit white space-heavy for a science fair board, but white space will make your board look better and make it easier to understand. An overcrowded board is a confusing board.

- Make your text readable. Font sizes 150+ for your title, 32-48 for headers, 16-18 for body text, and 12-14 for captions. Remember that the person reading your board is standing a few feet away from it, not reading it like a paper. These larger font sizes also help limit the amount of text on your board. More suggestions are available at https://www.sciencebuddies.org/science-fair-projects/project_display_board_fonts.shtml
- Stick to two or three easy-to-read fonts, and use them strategically. Use one font for titles and subtitles, and a second font for your body text. Strategically using a couple of fonts unifies a display board, making it easier to read and giving it a polished, professional appearance.
- Pick two or three colors and stick to them. Just like strategically using two or three fonts, sparing, strategic use of color unifies your display board and makes your board easier to understand.
- Figures are awesome. Use graphs, flow charts, diagrams, and pictures whenever possible. Make sure they are large enough to be read from a distance, and be sure that your figures have captions. Number your figures and refer to them by number elsewhere on your board (e.g., "See Fig. 1.").
- Make sure that you discuss your data using words, numbers, and pictures. Make sure you have at least one table showing your data. Have appropriate graphs of your data, and comment on your data.
- Use a paper cutter or paper trimmer to cut your paper; it makes nice, straight edges.
- Use matte photo paper instead of regular printer paper for printing your text and figures. It's a bit more expensive, but makes text and images look crisper and cleaner. You can use glossy photo paper, too, but sometimes glossy paper creates a harsh glare.
- Photo paper is thicker than regular paper, so instead of overlapping sheets of paper when your text doesn't fit on one page, cut the paper and make the edges flush. If done well and with straight edges, the seam is almost invisible.
- If you have an ink jet printer, you might be able to cut a piece of poster board to the width of your printer's paper feeder and then print on that piece of poster board. This is great for printing titles because it lets you print things with dimensions like 8.5" x 20". Your title then fits on one page, and you don't have to worry about lining things up perfectly.
- We recommend that you do not include a copy of your abstract on your display board. You may make copies of your abstract and have them on your table.
- Maximum Size of Project (Max height below is from the floor, we furnish tables that are @ 82cm tall for display boards, therefore, max height from the table to the top is @ 192cm.)
 - Depth (front to back): 30 inches or 76 centimeters
 - Width (side to side): 48 inches or 122 centimeters
 - Height (floor to top): 108 inches or 274 centimeters

Not Allowed at Project or Table at the Ritchey Science & Engineering Fair

- Living organisms, including plants
- Soil, sand, rock, &/or waste samples, **even if encased in acrylic**
- Taxidermy specimens or parts
- Preserved vertebrate or invertebrate animals
- Human or animal food (Example: fruits, vegetables, snacks)
- Human/animal parts or body fluids (Example: feathers, teeth, blood, urine)
- Plant materials (living/dead/preserved) in their raw, unprocessed, or non-manufactured state (Except: manufactured construction materials used to build the project or display)
- All chemicals including water (Projects may not use water in any form in a demo. Other examples: Clorox, cleaning supplies, shampoo, mouthwash, salts, vinegar, baking soda, etc.)
- All hazardous substances or devices (Example: poisons, drugs, firearms, weapons, ammunition, reloading devices, and lasers)
- Dry ice or other sublimating solids
- Sharp items (Example: syringes, needles, pipettes, knives)
- Flames or highly flammable materials
- Batteries with open-top cells
- Glass or glass objects unless deemed by Fair Officials to be an integral part of the project (Example: part of a commercial product such as a computer screen)
- Apparatus deemed unsafe by Fair Officials (Example: large vacuum tubes or dangerous ray-generating devices, empty tanks that previously contained combustible liquids or gases, pressurized tanks, etc.)

SCIENCE FAIR DISPLAY BOARD—FONT SAMPLES/SIZES

Arial (Sans-serif font)

Title 150

Major Heading 48 points

Sub Heading 32 pts

Body Text 18 pts or larger (can be read from 2 meters away—try it)

Pictures, Graphs, etc. - Captions should be 14 pts or larger

Times New Roman (Serif font)

Title 150

Major Heading 48 points

Sub Heading 32 pts

Body Text 18 pts or larger (can be read from 2 meters away—try it)

Pictures, Graphs, etc. - Captions should be 14 pts or larger