

STEMium presents

THE SCIENCE FAIR ROADMAP

Learn how to go from idea to science fair project with ease (even if you've never done an experiment).



Grab a notebook and start thinking about science-related questions you've asked before, or maybe areas you are interested in learning more about...



BRAINSTORM IDEAS



Have science fair idea block? Don't worry there are many different strategies to find an idea in the area you're interested in. Check out STEMium for more resources, examples and tools.

CREATE A TESTABLE QUESTION

A good testable question will be one that you can measure. Some science fair projects compare two things to see WHICH is better? Find a problem that needs solving. You're not trying to get the answer right with your project - you're trying to answer it!



CREATE A HYPOTHESIS



Think of this as your guess as to what will happen in the experiment. For example, if you're testing which popcorn pops fastest, your hypothesis may pick one type of popcorn out of five others.



Make sure you set up the materials and methods/steps before you start. Figure out what VARIABLE you are testing. Try to add things like a POSITIVE and NEGATIVE control to make sure your experiment is working. Lastly, measure as much as you can so you can check your hypothesis.

ANALYZE RESULTS

With your experiment finished, now it's time to analyze your results. Summarize data points with math and statistics (averages, minimums, etc.). Draw charts. Examine patterns. This is where we try to understand what happened.



DRAW CONCLUSIONS



Compare your results with your hypothesis -was your hypothesis correct?? Was it incorrect? Many new scientific discoveries were made because the original hypothesis was wrong! It's part of science!

PRESENT YOUR RESULTS

It's your time to shine! If you've followed the STEMium Science Fair Road Map, assembling your written report should be easy! Practice your presentation and assemble your board.



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Looking for inspiration and a list of examples? Head on over to STEMium.com for more information. Let's science!