

Science Fairs



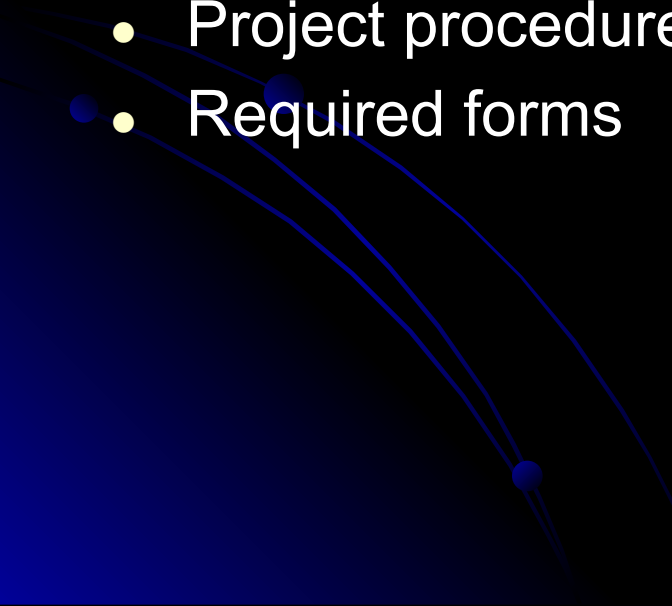
Synopsys Championship

- www.science-fair.org
- March 8-9, 2023
- In person, if current conditions continue
- Currently, any person attending will need to have proof of vaccination.
- Pre-approval deadlines: Now thru Nov. 22
- Final application date: 1/17/2023



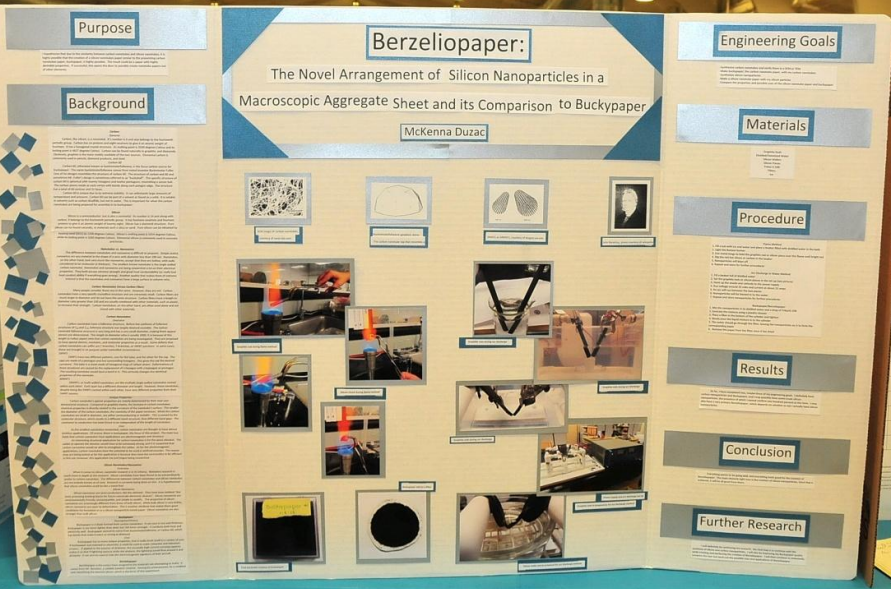
Getting started with the application

Online Application Folder must contain

- payment or voucher code
 - Any project with potential risk requires pre-approval
 - Signatures
 - Signature dates MUST be BEFORE experimentation begin date
 - Sponsoring teacher
 - Project procedures
 - Required forms
- 

Advantages of Participation

- Discovery!
- Learning from mentors and judges
- Various cash up to \$1000
- Qualification for
 - Ca State Science Fair, grades 6-12
 - Broadcom MASTERS, grades 6-8
 - Trip to Regeneron International Science and Engineering Fair, grades 9-12
- NASA opportunities
- Variety of Sponsored Awards from Organizations

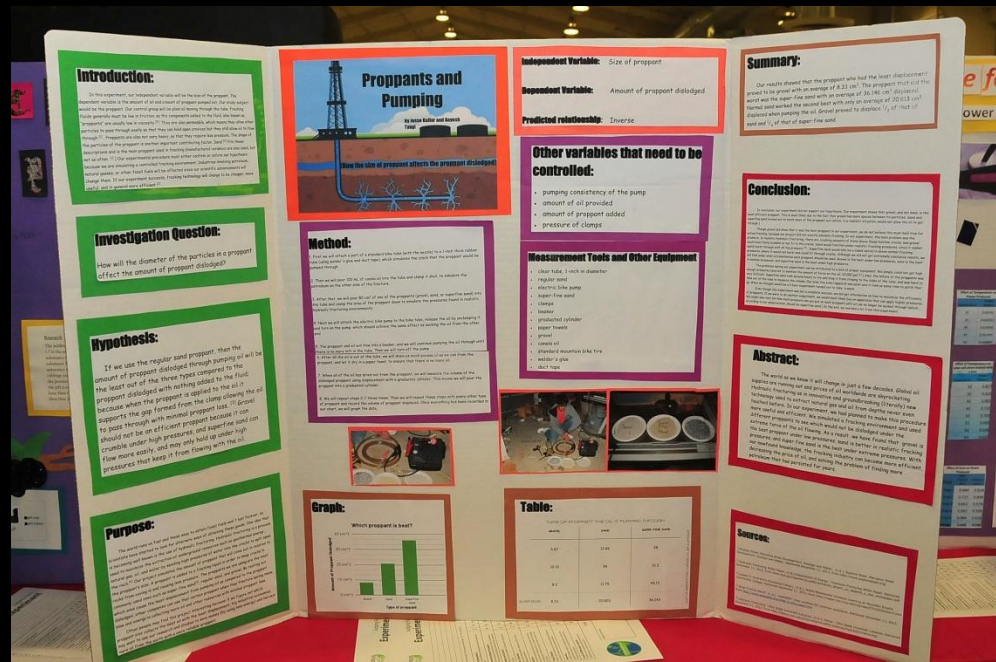


Types of Projects

- Product testing for 8th and below only
- Engineering, Math, Computer Science
- All types of Experiments
- See website for [Engineering PPT](#)
- See link for [minimum quality standards](#)
- See special rules/forms/dates: hazards, vertebrates, humans. (Apps that involve medical or mental health **may not be done without a doctor** as a supervisor, and require pre-approval.)

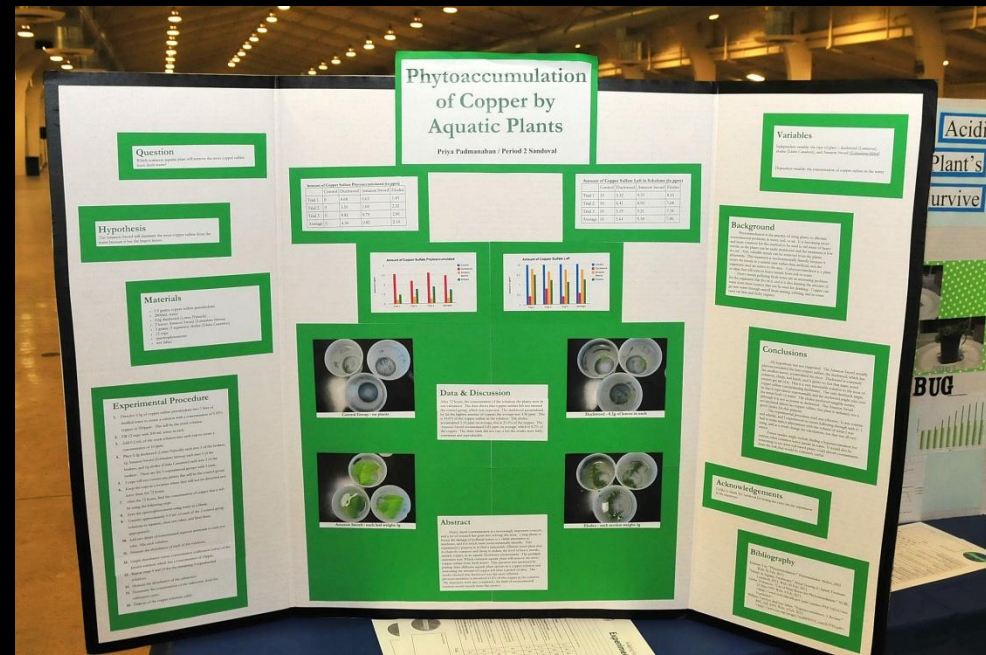
Projects Hints

- Something you CARE about
- Do your background research
- Look for the answer to Why or How
- Something that matters-to developing countries, to disabled people, to the environment
- The “inherently cool”
- Use a notebook!
- Analyze your findings



Stay away from:

- Pouring Coke on anything
- Growing plants in MiracleGro
- Testing different colors of light on plants
- Anything that starts out with “I want to find out what happens when...” ***
- See the no-no list on the website



Need More Ideas?

- Use a Scientist's unfinished work
- Use Google and Google scholar

Stay away from science project lists
“Earthquake” and “Magnets”

Use what you know

Your hobbies

The things that bug you

The Sponsored Awards

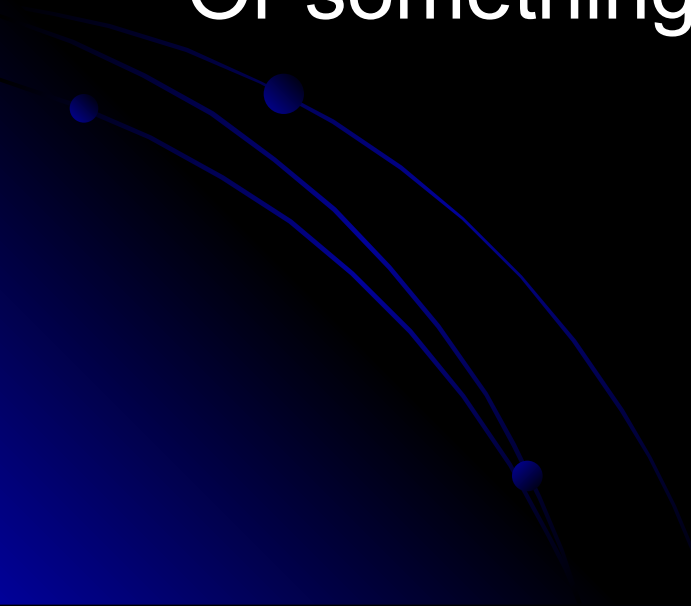
The news

Look for unique measuring
devices (UV meter)



Example of a real “science fair project”

- Bare Zones
- Why is there a strip of bare dirt between the chaparral and grassy areas on Mt. Diablo? Is it a complicated plant warfare? Or something much simpler?



Success

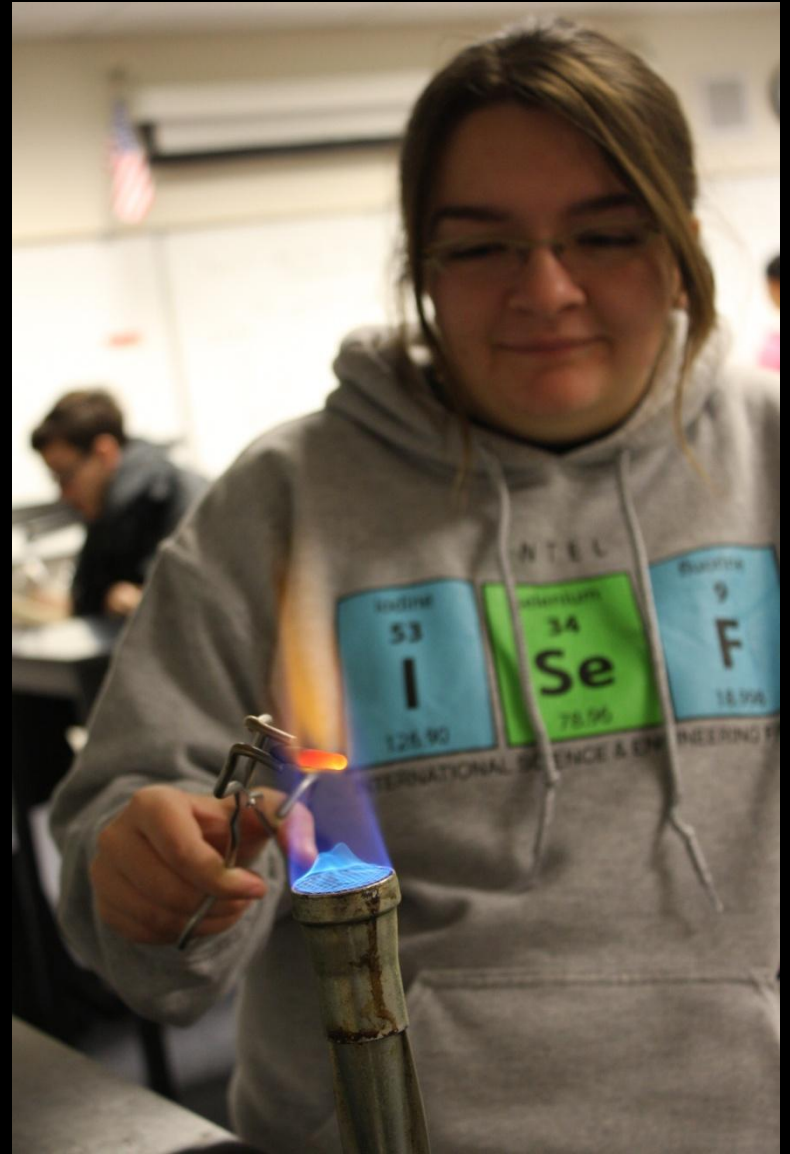
- Take as much data as possible
 - many samples
 - repeated trials
 - various conditions
- **Analyze** the data
- Be enthusiastic when presenting
- Safety first!
- Parents-know your place
- Go beyond if using Science Buddies



Applying

Be clear

- Include safety information
- Use metric
- Know your variables
- Check for all the special forms your project may require
- Signatures!
- Bibliography



Important Websites

- www.science-fair.org
- www.sciencebuddies.org
- <http://www.societyforscience.org/ISEF/>
- <http://school.discoveryeducation.com/sciencefaircentral/>
- <http://ei.cornell.edu/student/>



We hope this is the beginning of great things to come!

