



North Bay SCIENCE DISCOVERY DAY

Sunday, May 15, 2022 | 10:00 a.m. to 4:00 p.m. | Sonoma County Fairgrounds
A science festival to spark children's wonder and curiosity for science, technology, engineering, and mathematics!

Welcome

The sponsors, exhibitors, and volunteers welcome you to the North Bay Science Discovery Day. The goals are to spark young people's wonder and curiosity for science, technology, engineering, and mathematics (STEM). We support collaboration to strengthen the North Bay's STEM learning ecosystem to expand and sustain youth STEM engagement. We support cultivating interest in STEM careers, building a global competitive workforce, and increasing the economic vitality of the North Bay. Thank you for being here.

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What's Next?

Visit our website for ideas to continue science, technology, engineering, and mathematics learning!
northbayscience.org



See you next year!
March 11, 2023



Hosting Sponsors



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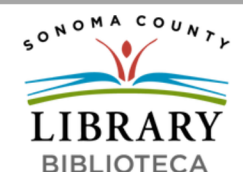
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Planning Team

The volunteer planning team live, work, and play in North Bay communities. Thank you to: B. Gabriela Arango, Dennis Bentley, Lyman Black, Steve Kadar, Stuart Levin, Susan Magnone, Don Pierce, Mike Roa, Lori Lee, Leonard Weingarten, Kerry Winger, and Steven Worker.

Please consider joining the volunteer planning team!
Email to inquire at info@northbayscience.org

OUTDOORS

Exhibitor	Inquiry Question
Boy Scouts of America, Redwood Empire Council	How do Scouts have fun while using STEM?
California Highway Patrol	What technologies do officers use?
Children's Museum of Sonoma County	Can you make a rocket that will launch into the air?
Department of Forestry and Fire Protection	How are the fire sciences used to protect us?
Marin County Free Library	Can you match the animals with their tracks?
Pacific Coast Air Musuem	What makes aircraft fly?
Penguin Empire Robotics - San Marin High School	What can robots do for you?
Robert Ferguson Observatory	What makes our favorite star shine? Why is it important to our planet?
Sonoma County Library - BiblioBus	How do the magnets move objects without touching?
Sonoma County Public Health	Free COVID-19 vaccination clinic.
SRJC Computer Studies	What happens when Mentos are added to diet cola? Why does it happen?
SRJC Drone Studies Program	What does a drone look like and what can it do?
STEMinism	What happens when dry erase art is put in water?
The Bird Rescue Center	Why are birds important to the environment?
The Buck Institute for Research on Aging	What is the ecological role of sharks?
Viavi Solutions - Optical Security and Performance	How is light used in our daily lives to make products safer?
WGAS Motorsports	How high-tech are championship monster trucks?
WildCare	What does an owl pellet reveal about an owls role in an ecosystem?



INDOORS - GRACE PAVILION

Exhibitor	Inquiry Question
First Aid / Primeros Auxilios - Information Help Booth (South)	
501st Legion Golden Gate Garrison	How can I become a member of the 501st Legion?
A Traveling Space Exhibit	What does it take to fly into space? What is a meteorite?
Advanced Personalized Learning	How can I build my own Nerf robot?
Boy Scouts of America, Redwood Empire Council	What adventures in science will interest you as part of peer-led Scouting groups?
Charles M. Schulz Museum	How do you use science to bring still objects to life?
Crecer ConCiencia	Why are pollinators so important? Do we have food without pollinators?
Denali Therapeutics	What does a brain look like and how does it function?
Internet of Things Mob	What happens when you combine 3D Printing, IoT, and AI?
Kaiser Permanente	What can we do to help prevent the continuation of this pandemic?
Keysight Technologies, Inc. - Engineers	What's it like to be an engineer?
Keysight Technologies, Inc. - Pendulum	The Pendulum: How can a simple pendulum teach us about electrical waves?
Keysight Technologies, Inc. - Music and Math	Music and Math: What does sound look like?
Keysight Technologies, Inc. - Electromagnetic Waves	Invisible Electromagnetic Waves: How do cell phones and remote controls work?
Keysight Technologies, Inc. - Fault Measurement	Distance To Fault Measurement: If there's a broken wire, how can we tell where that broken wire is?
Keysight Technologies, Inc. - Microscope and Microcircuits	Microscope and Microcircuits: What is really inside of a microchip or microcircuit?
Maria Carrillo High School Robotics Club	How will robots be involved in your future?
Medtronic - Artificial Intelligence	How will AI change medicine, surgeries and health?
Medtronic - Heart Anatomy	Where is your heart in your body? What does your heart do and why is it there?
Medtronic - Idea Wall	If you could invent anything what would it be?
Medtronic - Laparoscopy Both	What is laparoscopic surgery? Why is it developed?
Medtronic - Vascular Catheter Lab	Would you like to know what it's like to be a doctor and perform surgery on a patient?
Milo Baker Chapter - California Native Plant Society	How do native plants adapt to drought in our region?
Mobile Climate Science Labs	How are young people making practical discoveries as leaders in climate action?
National Science Teachers' Association	How is science taught?
NorCal Bats	Why do people need bats in our home towns?
Petaluma Wildlife Museum	What is biodiversity and why is it important?
Rebel Legion Endor Base	How can you support science and join the Rebel Legion?
Recology Sonoma Marin - Waste Zero	Where does your household waste go?
ROV TOUR: Underwater Robotic Adventures	What can you do with an underwater remotely controlled robot vehicle?
Smile Orthodontics	How does technology help orthodontists predict the outcomes of treatment?
Sonoma County Ag + Open Space	What does land conservation mean to you?
Sonoma County Radio Amateurs	How do radio waves work?
Pacific Coast Air Musuem	What makes aircraft fly?
Sonoma State University Center for Environmental Inquiry & Bio Outreach	What is a watershed & what lives there?
Sonoma Water	What lives in our rivers and creeks?
SRJC Chemistry Club	Why does color sometimes change in a chemical reaction?
SRJC Physics Club	What is electricity, density, and momentum?
The Buck Institute for Research on Aging	What can you see under a microscope?
U.S. Geological Survey (USGS) - Earthquake Science Center	Why do earthquakes happen in the San Francisco Bay Area?
UC 4-H Youth Development Program - STEM Education	What can you add to your community to make it a happier place?
UC Berkeley Lawrence Hall of Science	What will you discover making art through motion?
UC Berkeley RadWatch & DoseNet	Where do we find nuclear radiation in our environment and how do we measure it?
UC Cooperative Extension, Sonoma County	How do we get butter from milk?
UC Davis Integrative Genetics and Genomics	What is DNA and how do scientists study it?
UC Davis Science Says	How do you make polymers?
Ultragenyx Pharmaceutical - Pharmacology/Toxicology	What can you observe about magnets?
Veolia Water	How do microorganisms help us treat wastewater?

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