

# Why Reserve an Explorit Program?

## Thank you to our Program Sponsors

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Buck Foundation

- We help you and your students discover new science activities.
- We help you meet state and national education standards.
- Families are inspired to discover science together with their children.
- Our programs foster science literacy and awareness in your community.



Think it.  
Try it.  
Explorit.

## How to Make a Reservation



### Reserve by Phone

Call us at (530) 756-0191,  
9am-4:30pm at least two weeks  
before your desired date.

### Reserve Online

Visit [www.explorit.org/program-request](http://www.explorit.org/program-request) and fill out the online form. We will contact you to confirm your reservation.

## Contact us

### Location:

Explorit Science Center  
3141 5th Street  
Davis, CA 95618

### Phone:

(530) 756-0191

*(Weekdays from 9am-4:30pm)*

### Fax:

(530) 756-1227

### Website:

[explorit.org](http://explorit.org)

### Email:

[explorit@explorit.org](mailto:explorit@explorit.org)

## Discounts

Programs delivered by December 31, 2017 receive a 10% discount. If your school has never had a program from Explorit, receive another 10% discount.

## Fee Assistance

Full and partial scholarships are available for schools and groups demonstrating financial need. Apply online at [www.explorit.org/programs/programs-for-groups](http://www.explorit.org/programs/programs-for-groups) and click on "Group Fee Assistance Application." Availability is limited.

The programs described in this brochure are offered by Explorit Science Center, a nonprofit California 501(c)(3) corporation. Your school district is not a legal sponsor of the programs and does not endorse them, nor accept any liability or responsibility for them.

## Other Explorit Programs

- Visits to the Museum
- Astronomy Club
- Birthday Parties
- Family Explorations
- Vacation Science Classes

Visit [explorit.org](http://explorit.org) for information on these programs and more. Learn how to become a member and what you can do to support Explorit.



2017-2018  
Explorit Science Center

# Program Guide

CA NGSS Aligned  
Science Programs for  
Schools, Groups, and Teachers

Providing programs that help strengthen your curriculum  
and inspire enthusiasm about science and nature.



**Chris Breazeale**  
Executive Director

## Hello from Explorit!

*AS EXPLORIT'S new executive director, I'm pleased to announce new additions to our hands-on science programming this year!*

*We're offering a new Inquiry Lab on Energy that challenges student teams to transform potential energy into kinetic energy. For our visits to your school, we're offering two newly developed programs: "Ecosystems and Biomes" Classroom Adventures, and our new Family Science Night "Green World, Healthy People." This program explores the ways human, animal, and environmental health intersect through topics like pollution, nutrition, pollination, and much more.*

*And don't miss a new teacher professional development opportunity through workshops on the Next Generation Science Standards, with complete lesson kits for your classrooms.*

*We look forward to supporting your science adventures this year!*

— Chris



**EXPLORIT SCIENCE CENTER**

DAVIS, CALIFORNIA



# Programs At Your Site - We Visit You

## Classroom Adventures

Invite Explorit into your classroom to provide guided hands-on and minds-on experiences for your students. After a brief introductory discussion with an Explorit educator, students will rotate through four activity stations, each with hands-on activities and explorations to stimulate curiosity, and encourage investigation and problem solving.

### Available topics:

#### Amazing Animals

Grades K-4



Investigate the ways animals survive and thrive with real animal specimens. See how adaptations help animals hide in plain sight and how young animals change as they grow. Meet Explorit's resident insects and reptiles.

LS1.A, LS1.B, LS1.C, LS2.A, LS3.A, LS3.B, LS4.B, LS4.C, LS4.D, ESS2.E, ESS3.A

#### Earth's Features

Grades 3-5



Uncover the Earth's layers to discover the forces behind the phenomena of earthquakes and volcanoes. Design an earthquake-safe structure and then shift the tectonic plates. Explore rock, fossil, sand, and mineral samples for what they reveal about the history of the planet.

ESS1.C, ESS2.A, ESS2.B, ESS2.C, ESS2.E, ETS1.A, ETS1.B

#### Ecosystems and Biomes

Grades K-5



Investigate the many interrelationships among animals, plants, habitats, and weather. Explore adaptations for animals thriving in one climate, but not in another. Discover how the animals, plants, and people in an ecosystem rely on each other. LS1.A, LS1.B, LS1.C, LS1.D, LS2.A, LS2.B, LS2.C, LS2.D, LS4.C, LS4.D, ESS2.A, ESS2.C, ESS2.D, ESS2.E

#### Explorations in Energy

Grades 3-6



Experiment with energy sources and uses. Discover different sources of fuel and how to store energy and move it to where it's needed. Trace the flow of energy from the sun into plants and food.

LS1.C, LS2.A, ESS2.E, ESS3.A, ESS3.C, PS2.A, PS2.B, PS3.A, PS3.B, PS3.C, ETS1.B

#### Light and Sound

Grades 1-5



Discover the forces of light and sound waves. Dissect a beam of light with a spectroscope or communicate by using binary or Morse code. Harness the waves of the sun to power various devices.

PS2.A, PS2.B, PS3.A, PS3.B, PS4.A, PS4.B, PS4.C, ETS1.A

#### Simple Machines

Grades K-5



Explore the forces and objects that make things move. Test different pulley systems, build with gears, and discover the simple machines hidden in everyday objects. Try lifting people off the ground with a lever, or roll them across the floor with wheels.

PS2.A, PS2.B, PS2.C, PS3.C, ETS1.A, ETS1.B, ETS1.C

**All Programs  
Are Aligned  
With California  
State Science  
Standards**



## Family Science Nights

Explorit transforms the school multipurpose room or cafeteria into an interactive hands-on science museum for the entire family. Invite students, families, and the neighborhood for an unforgettable science event. With up to 14 tables of activities, there is science and fun for everyone.

### Available topics:

#### Science in Your World

Explore a variety of Earth, life, and physical sciences while discovering their interactions in the world. Meet live Madagascar Hissing cockroaches, help dissect a sheep's heart, use microscopes to solve mysteries, and experience static electricity.

LS1, LS2, LS3, LS4, ESS2, ESS3, PS1, PS2, PS3, PS4, ETS1

#### Green World, Healthy People

Discover the connection between humans and the planet. Explore ways to keep the environment, animals, and people in the community healthy—from plastic trash in the ocean to worms in the soil. Design an energy-efficient building, learn to support bees and pollination, and make smart food choices for a healthier, greener future for the whole planet.

LS1, LS2, LS3, LS4, ESS2, ESS3, PS1, PS2, PS3, ETS1

## Program Fees

### Family Science Nights

\$925 for a 90-minute program.

#### Travel Fee

99 cents per round-trip mile to the site.

#### Details

Available weekday evenings with other days and times available by arrangement.

## Program Fees

### Classroom Adventures

- 4 sessions = \$550 (\$137.50/session)
- 2 sessions = \$350 (\$175/session)
- 3 sessions = \$450 (\$150/session)
- 1 session = \$190

#### Travel Fee

99 cents per round-trip mile to the site.

#### Details

- Book up to four 60-minute sessions of a single topic in one day.
- Each session accommodates up to 40 students.
- Additional charges apply for groups over 40 students.
- Teacher participation plus 2-4 adult chaperones required.
- Available weekdays or by special arrangement.

# Programs At Explorit - You Visit Us

New!

## Discovery Lessons



Students investigate and explore the hands-on activities in our Exploration Gallery. An Explorit educator leads the lessons, which strengthen and support students' science and math education. **LS1.A, LS1.C, LS1.D, LS2.B, LS2.C, LS2.D, LS3.A, LS3.B, LS4.A, LS4.B, LS4.C, LS4.D, ESS1.B, ESS3.C, PS2.A, PS2.B, PS3.B, PS3.C, PS4.B, ETS1.A, ETS1.B, ETS1.C**

## Inquiry Labs

Students, in small groups, meet open-ended challenges designed to stimulate curiosity and problem-solving skills. These labs emphasize the importance of experimentation, creativity, and collaboration in the scientific process.

### Available topics:

#### Electricity



Learn more about flowing and static electricity by creating electrical charges, watching how they interact, and constructing circuits. Explore electricity and magnets then move electricity to where it's needed. **PS2.B, PS3.A, PS3.B, PS3.D, ETS1.A, ETS1.B**

#### Energy



Set things in motion and convert potential energy into kinetic with a series of fun science challenges. Use magnetism, gravity, and boundless imagination to race toy cars without touching them or to slow a marble's fall through a rollercoaster. **PS2.A, PS2.B, PS3.A, PS3.B, PS3.C, PS3.D, ETS1.A, ETS1.B, ETS1.C**

#### Light and Sound



Make some waves while exploring how sound and light move and how to use that movement to communicate over long distances. Work with a team to construct a device to carry sound waves using everyday household materials. **PS3.A, PS3.B, PS4.A, PS4.B, PS4.C, ETS1.A, ETS1.B, ETS1.C**

#### States of Matter



Investigate the properties of substances like colloids and polymers. Get messy with solids and liquids by stretching, poking, and testing a variety of fun slimes. **PS1.A, PS1.B**

## Nature Safaris



Students experience an outdoor adventure and discover the varied creatures that share Mace Ranch Park. With the help of an Explorit educator, students catch insect specimens, observe local wildlife, and learn about the roles these organisms play in the ecosystem of the park. **LS1.A, LS1.C, LS2.A, LS2.C, LS4.C, LS4.D, ESS2.E, ESS3.A, ESS3.C**

## Program Fees

### Discovery Lessons, Inquiry Labs and Nature Safaris

\$6.00/student, \$72 minimum per group.

#### Details

- All programs are 75 minutes.
- Each session accommodates up to 40 students, with at least one adult for every seven students (chaperones free).
- Available Monday-Friday or by special arrangement.
- Reserve two or more on-site programs and receive a 5% discount on program fees.

## Teacher Kits

Complete kits contain lessons and supplies for inquiry-based, hands-on science experiments and investigations in the classroom. Use the kits to enhance the curriculum in the NGSS disciplines of physical science, life science, and Earth & space science.

## Teacher Kit Fees

Kits are free for attendees of Explorit's teacher training professional development workshop (\$100.00). Upon completing the workshop, attendees have access to kits for one calendar year. Kits can be checked out for two weeks.

All teachers may check out kits for \$25.00.

To reserve a kit or to enroll in the workshop go to [explorit.org](http://explorit.org) or call (530) 756-0191.

