Explore, investigate, discover, invent.

Welcome to the 2017-2018 school year!

The Lawrence Hall of Science is dedicated to inspiring and fostering science, technology, engineering, and mathematics (STEM) learning at the Hall as well as in schools and communities. I am pleased to share some exciting changes to our offerings. Our workshops have been redesigned to model the ambitious vision called for in the Next Generation Science Standards (NGSS). In addition to content shifts, we have lengthened some workshops from 60 minutes to 75 minutes to allow deeper exploration of STEM ideas, concepts, and practices. We can also support your school or district in implementing NGSS. Our seasoned educators can provide customized support at every stage of the process. Contact us for more information.

We are committed to ensuring access to all our programs. Contact our registration office if you would like to request need-based financial assistance for any of our program offerings. We hope you explore, investigate, discover, and invent with us this year!

Rena Dorph, Interim Director

Field trips to the Lawrence Hall of Science are available Tuesday–Sunday, 9:00 a.m.-4:00 p.m. Pick one of the four options below for the perfect field trip for your students.

**Exhibit Experience**

- Admission to the Hall
- Orientation with Hall staff
- Exhibits Scavenger Hunt
- Self-guided exploration of our hands-on exhibits and experiences

**Cost:** $8 per student

**Exhibit Experience + Show**

- Admission to the Planetarium show or 3D film of your choice. Visit lawrencehallofscience.org to see what's playing.

**Cost:** $10 per student

**Exhibit Experience + Workshop**

- 60–75 minute classroom workshop taught by one of our professional educators

**Cost:** $450 for a group of up to 32 students

**The Complete Experience**

- Exhibit Experience
- Admission to the Planetarium show or 3D film of your choice
- 60–75 minute classroom workshop taught by one of our professional educators

**Cost:** $500 for a group of up to 32 students

*One chaperone per seven students admitted free—additional adults are $12 each, $14 each for the Complete Experience.*
AT THE HALL

Get out of the classroom and get hands-on with a field trip to UC Berkeley’s Lawrence Hall of Science! Between exhibits developed in-house and featured traveling exhibits, the Hall is full of opportunities for your students to engage with science, technology, engineering, and math. Check out just a small sample of what’s in store when you bring your students to the Hall:

Hands-On Science Exhibits
The Hall both develops in-house and hosts world-class science exhibits that give your students the opportunity to engage and get hands-on with science.

Outdoor Experiences
Climb on our science sculptures Pheena the Fin Whale and the DNA Strand. Explore geology, erosion, and other natural forces in Forces that Shape the Bay.

Planetarium & 3D Theater
For an additional fee, explore the night sky or discover science in 3D with a Planetarium show or a 3D film.

Go to lawrencehallofscience.org/visit for exhibits and more!
FIELD TRIP PACKAGES

Field trips to the Lawrence Hall of Science are available Tuesday–Sunday, 9:00 a.m.-4:00 p.m. Pick one of the four options below for the perfect field trip for your students.

Exhibit Experience
Our classic field trip experience. Includes:
• Admission to the Hall
• Orientation with Hall staff
• Exhibits Scavenger Hunt
• Self-guided exploration of our hands-on exhibits and experiences
Cost: $8 per student

Exhibit Experience + Workshop
Dive deeper with a classroom workshop. Includes Exhibit Experience, plus:
• 60–75 minute classroom workshop taught by one of our professional educators
Cost: $450 for a group of up to 32 students

Exhibit Experience + Show
Enhance your Exhibit Experience. Includes Exhibit Experience, plus:
• Admission to the Planetarium show or 3D film of your choice. Visit lawrencehallofscience.org to see what’s playing.
Cost: $10 per student

The Complete Experience
Our ultimate field trip experience. Includes:
• Exhibit Experience
• Admission to the Planetarium show or 3D film of your choice
• 60–75 minute classroom workshop taught by one of our professional educators
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AT YOUR SITE
Get a great science learning experience at your school or community site. From small, hands-on workshops to large group science shows, students of all ages get excited about science during our visit and beyond.

Workshops
Our professional educators bring all the supplies to give your students the engaging learning experience that they would get on a field trip to the Hall.

Science Shows
Dazzle as many as 150 students with an exciting demonstration. Our shows include lots of audience participation to engage your students with awe-inspiring science.

Science Festivals
Our educators will set up an assortment of themed activity stations and exhibits to explore. Perfect for science night, for back-to-school events, or to kick off your science program.

Workshop Pricing:
2 workshops: $750; 3 workshops: $1,075*

Festivals & Shows Pricing:
2 sessions: $1,000; 3 sessions: $1,200*

*A $2 per mile travel fee is added to all programs outside of Berkeley. Please visit lawrencehallofscience.org/schoolprograms, or contact our Registration Office for more information.

<table>
<thead>
<tr>
<th>FESTIVALS</th>
<th>SCIENCE SHOWS</th>
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<tbody>
<tr>
<td>WIZARD’S LAB (K–12) PHYSICAL SCIENCE</td>
<td>SOLIDS, LIQUIDS &amp; GASES (K–6) PHYSICAL SCIENCE</td>
</tr>
<tr>
<td>BUILD, ENGINEER, INVENT! (K–8) ENGINEERING</td>
<td>FLAMES, FLARES &amp; EXPLOSIONS (K–8) PHYSICAL SCIENCE</td>
</tr>
<tr>
<td>MYSTERY FESTIVAL (1–8) PHYSICAL SCIENCE</td>
<td>ELECTRIFYING SCIENCE (K–6) PHYSICAL SCIENCE</td>
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<tr>
<td></td>
<td>EXPLORE THE WEIRD AND WONDROUS PHYSICS PHENOMENA THAT WE CAN OBSERVE ALL AROUND US THROUGH HANDS-ON EXPERIMENTS AND EXHIBITS.</td>
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<td>ENGAGE IN REAL-LIFE ENGINEERING PRACTICES AS STUDENTS DESIGN AND BUILD STRUCTURES AND EXPLORE HOW ENGINEERING PLAYS A HUGE ROLE IN THE WORLD WE LIVE IN.</td>
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<td>TRANSFORM YOUR SCHOOL INTO A FORENSIC LABORATORY AS STUDENTS SOLVE A COMPLEX MYSTERY WITH PH TESTING, FINGERPRINTS, INVISIBLE INK, AND MORE.</td>
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<td>EXPERIENCE ELECTRIFYING SCIENCE THAT WILL MAKE YOUR STUDENTS’ HAIR STAND ON END WITH HIGH-VOLTAGE EXPERIMENTS AND A SHOWSTOPPING GRAND FINALE.</td>
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<tr>
<td></td>
<td>GET MESMERIZED BY BRIGHT (AND SAFE) FLAMES, FLARES, AND EXPLOSIONS AS YOU LEARN THE SCIENCE BEHIND THESE FIERY CREATIONS.</td>
</tr>
<tr>
<td></td>
<td>EXPLORE THE PROPERTIES OF THE THREE STATES OF MATTER—SOLIDS, LIQUIDS, AND GASES—THROUGH EXPERIMENT AND OBSERVATIONS IN THIS MIND-BENDING SCIENCE SHOW.</td>
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# Workshops

## Tk & Kindergarten

<table>
<thead>
<tr>
<th><strong>Animal Homes</strong></th>
<th>Life Science</th>
<th>Explore the relationship between the needs of animals and the places they live through close-up observations of live animals.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Motion Commotion</strong></td>
<td>Physical Science</td>
<td>Engage in fun experiments, explore cause and effect, and share discoveries about force and motion. Investigate and play with marbles, cars, balls, and ramps.</td>
</tr>
<tr>
<td><strong>Fizz, Pop, Wow</strong> (after 11/1)</td>
<td>Physical Science</td>
<td>Mix up foamy potions and experiment to create the fizziest solution. This workshop provides fizzy, foamy fun for everyone!</td>
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## Grades 1-2

| **Slime** | Physical Science | What is slime? Students experiment with chemistry and consider the differences between states of matter to categorize this fascinating substance. |
| **Insects in Action** | Life Science | Meet amazing living insects up close and personal. Discover the incredible properties that make insects unique. |
| **Ingenuity Lab** | Engineering & Physical Science | Step into the shoes of a real-life engineer! Students will design, build, and test solutions to a targeted engineering challenge. |
| **Patterns: Earth, Sun & Stars** | Earth & Space Science | Enter our Planetarium and make scientific hypotheses and observations about the patterns and phenomena in the night sky. |

## Grades 3-5

| **Fantastic Gas** | Physical Science | Astonish your students with frosty, foggy experiments as they explore the properties of dry ice and a variety of gases. |
| **Moons of the Solar System** | Earth & Space Science | Observe Earth’s changing Moon in our Planetarium and discover the motions of the Sun, Earth, and its Moon. Take a tour of other moons in our Solar System. |
| **Volts ’N’ Jolts** | Physical Science | Use the same tools as real scientists to conduct high-voltage experiments and learn how generators, electric motors, and other devices work. |
| **Squid: The Inside Story** | Life Science | Students get up close and personal with real squid as they make observations and answer their own questions about these fascinating creatures through dissection. |
| **Ingenuity Lab** | Engineering & Physical Science | Step into the shoes of a real-life engineer! Students will design, build, and test solutions to a targeted engineering challenge. |

## Grades 6-8

| **Fantastic Gas** | Physical Science | Astonish your students with frosty, foggy experiments as they explore the properties of dry ice and a variety of gases. |
| **Moons of the Solar System** | Earth & Space Science | Observe Earth’s changing Moon in our Planetarium and discover the motions of the Sun, Earth, and its Moon. Take a tour of other moons in our Solar System. |
| **Volts ’N’ Jolts** | Physical Science | Use the same tools as real scientists to conduct high-voltage experiments and learn how generators, electric motors, and other devices work. |
| **Squid Dissection** | Life Science | Students get up close and personal with real squid as they make observations and answer their own questions about these fascinating creatures through dissection. |
| **Ingenuity Lab** | Engineering & Physical Science | Step into the shoes of a real-life engineer! Students will design, build, and test solutions to a targeted engineering challenge. |

## Grades 9-12

| **Squid Dissection** | Life Science | Students get up close and personal with real squid as they ask questions, make observations, and explore squid physiology through dissection. |
| **Ingenuity Lab** | Engineering & Physical Science | Step into the shoes of a real-life engineer! Students will design, build, and test solutions to a targeted engineering challenge. |

*Ingenuity Lab workshop topics change regularly. Check lawrencehallofscience.org/ingenuity for this month’s challenge!*
WELCOME TO THE 2017–2018 SCHOOL YEAR!

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