



# School Programs

SAN DIEGO NATURAL HISTORY MUSEUM

The San Diego Natural History Museum would like to express its sincere appreciation to the following individuals, foundations and corporations which have supported the programs of the Environmental Science Education Center (ESEC):

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The Canyoneers  
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Thomas C. Ackerman Foundation  
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 Sheila and Jeffrey Lipinsky  
 The Kenneth T. and Eileen L. Norris Foundation  
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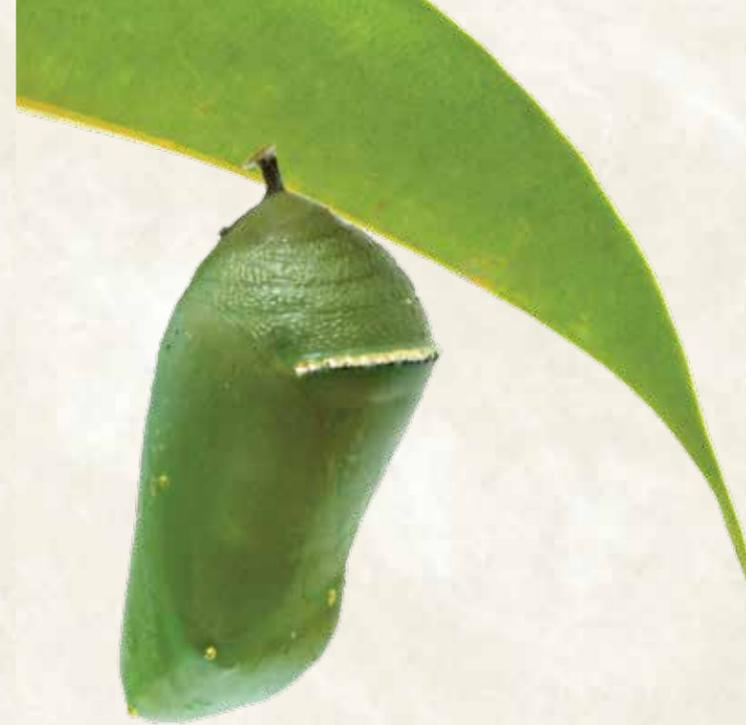
**PROBEA (Proyecto Bio-regional de Educación Ambiental)**

Bio-regional Environment Education Project  
*Environmental education training programs for teachers in the Baja California peninsula*

**Smart Schools**

International Community Foundation at the recommendation of Christy Walton  
 U.S. Fish and Wildlife Service, Wildlife Without Borders-Mexico  
 World Wildlife Fund/Carlos Slim Foundation Alliance

🌱 Denotes The San Diego Foundation



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## Welcome

Dear Educators,  
We have all heard the expression, “it takes a village to raise a child.” I also believe it takes a village to educate a child. The Education Department staff of the San Diego Natural History Museum is an important part of that village.

During this last year, I have watched my staff create new programs, update and revise existing programs, and incorporate more interactive elements into our programs with the intention of making things new, fresh, and even more excellent. We are committed to providing the best possible experiences in informal education to our audiences.

This year, we are continuing our most in-demand offerings, and almost every one of them has an enhancement or an added spark, such as a new activity, more hands-on experiences, or the integration of our new Promethean interactive whiteboards. Our Museum in-house and outreach programs continue to grow in popularity, while our Docent programs continue to expand. Desert, Ponds, Oceans, and Forests are now offered in-house as well as through an outreach program. Our Canyoneers inspire passion when taking audiences outside to discover nature. Nature & Me Storytime is acquiring many new books this year to engage young children, and our audiences keep expanding. And Ms. Frizzle is forever taking her “school bus” all over San Diego County, turning kids on to science.

The Next Generation Science Standards are coming soon, and we are getting a head start by integrating them into our programs as we speak.

Educator’s Night will be on **October 24** this year. Tell a fellow teacher, and come join us for a fun evening and find out about all we have to offer. There will be food, displays of the programs we facilitate, behind-the-scenes tours for early arrivers, exhibition tours, fabulous giveaways, a 3D movie, and more. Our Nature to You Loan Library will be open for touring as well.

An exciting opportunity taking place this year is a collaboration with the Reuben H. Fleet Science Center and the San Diego Area Writing Project, in which we’ll produce an educator’s guide for our new core exhibit *Coast to Cactus in Southern California*, scheduled to open in late 2014. This educator’s guide will be written by teachers for teachers.

We are honored to be a part of the “village” it takes to educate a child. Call us, come visit us. Allow us as informal educators to support you and your students with excellent science education resources. Wishing you all the best in the 2013–2014 school year.

Doretta Winkelman  
Director of Education,  
U.S. and Mexico Programs



## Register

Museum Access Funds are available for Title I schools to help support the costs of your field trip or outreach program. Ask our reservation supervisor if you qualify.

All Museum programs are aligned with the current California State Content Standards. Visit [sdnhm.org/education/school-programs](http://sdnhm.org/education/school-programs) to see specific standards met for each program.

**If you schedule multiple workshops in one day at your school site, all workshops must be held in the same room.**

Mileage fees may apply.

### Registration

- Reservations are always required. Please call 619.255.0210.
- For Museum programs, one adult chaperone per eight students is required and a one to five ratio is recommended.
- Required chaperone and carpool driver (one to three ratio) are admitted free.

### Payment

- A \$25 non-refundable deposit is required for all programs except Self-Guided Visits.
- Payment in full is due one week prior to scheduled program, with the exception of Self-Guided Visits and Docent tours; these fees may be paid at the door.

### Cancellations

- When cancellations are necessary, please call 619.255.0210.
- Cancellations are not official until you receive a reply from the Education Department.
- Full program fee is charged for cancellations made with less than one-week notice.

### Museum Information

- The San Diego Natural History Museum is located near the corner of Park Boulevard and Village Place in Balboa Park.
- Student groups should enter at the North “Fig Tree” Entrance.
- Student group admission for Self-Guided Visits is \$6, and a minimum of ten students is required.
- Student group admission does not include the 3D films. 3D film passes are \$2 per person.



## Teacher Resources

### Nature to You Loan Program

Inspire your class and bring nature inside. Become a member of the Nature to You Loan Program. Membership with the loan library allows for a year of unlimited access to the program's collection—over 1,300 specimens that represent the biologic and geologic diversity of the southwestern United States, Baja California, and the world! Search the database of specimens available for loan at [sdnhm.org/archive/education/naturetoyou/catalogs/catalogs.php](http://sdnhm.org/archive/education/naturetoyou/catalogs/catalogs.php)

**Annual Fee: \$50**



### Films

3D film schedule:

*Titans of the Ice Age*—July 4, 2013–February 28, 2014

*Dinosaurs Alive*—July 4, 2013–February 28, 2014

*Great White Sharks*—March 1, 2014–December 31, 2014

TBD—March 1, 2014–December 31, 2014 (See website for updates)

2D film schedule:

*Ocean Oasis* shown daily at noon

### Nature & Me Storytime

Calling all budding naturalists! Come enjoy an imaginative journey into nature through dynamic readings and visits to exhibitions. Storytime is held every second Thursday of the month at 10:15 AM and is open to all ages (recommended for ages 1–5).

**Nature & Me Storytime is free with Museum admission and free for members.**



## Teacher Resources

### Ms. Frizzle's Classroom Adventures (PreK–2) at your school site

Reinforce State Science Standards while being entertained. Invite Ms. Frizzle, Scholastic's favorite science teacher from *The Magic School Bus*® series, to your classroom. Students will take chances, make mistakes, and get messy with 'the Frizz'...a perfect reward for your class! Uncover fossils with *Digging into Dinosaurs*, learn about pollination through *Bats are Beautiful*, or become familiar with the intricacies of the honeybee lifecycle in *The Bee Olympics*. **See page 10 for more details.**

### Teacher E-news

Sign up for our e-newsletter and stay informed about exhibitions, films, online classroom resources, and exclusive teacher events. Send an email to [education@sdnhm.org](mailto:education@sdnhm.org) to sign up.

### Teacher's Guides

Preview exhibitions, classroom and gallery activities at: [sdnhm.org/education/teacher-resources/educator-guides](http://sdnhm.org/education/teacher-resources/educator-guides)

Let us help you meet your state content standards. Each of our traveling-science workshops are designed to help you complete your Foss Kit units. Check out the programs listed below:

Grade 1: **Flora and Fauna**—page 11

Grade 2: **Earth Detective**—page 12

Grade 3: **Survivor!**—page 11

Grade 4: **Read a Rock**—page 13

Grade 5: **It's Elemental**—page 13



Join us for  
Educator Night  
October 24, 2013.  
Details online at  
[sdnhm.org/education](http://sdnhm.org/education).

Looking ahead to the Next Generation Science Standards? So are we! Our programs offer hands-on authentic learning experiences that provide the opportunity for students to be actively engaged in their learning. Students in our school programs will make observations, interpret information, provide opinions based on evidence as well as learn specific content standards at each grade level. Check out the Next Generation Science Standards at [www.nextgenscience.org](http://www.nextgenscience.org)

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## Nature Walks

### In the Field

#### Nature Walks

Roll up your sleeves, put on your walking shoes, and discover the beauty of our own backyard—San Diego County. On your one-hour nature walk, the Museum’s Canyoneers (trained volunteer naturalists) will guide you through a trail that will invigorate your senses. Inhale the fragrant beauty, get up close and personal with some of our native arthropods, touch the flora, and learn how to identify local plants. In addition, the Canyoneers will demonstrate how the Kumeyaay Indians adapted to their environment by utilizing available resources. Choose from a selection of fantastic walks at: [sdnhm.org/education/school-programs/in-the-field](http://sdnhm.org/education/school-programs/in-the-field)



Is transportation a problem? Is there a natural area within walking distance of your school? By special arrangement, Canyoneers will conduct hikes in other appropriate locations. For more information call 619.255.0210. Please be prepared to describe the area and distance from your school.

**Fee:** \$2 per student, \$30 minimum per class

**Group size:** 32 student maximum per one-hour walk



## Museum Workshops—Life Science

### Grades K–3



#### **Autumn Harvest** at the Museum

What does it mean to hunt and gather? Step back in time! Grind acorns, scrape yucca leaves to discover fibers, investigate hunting strategies, and find out if your students can match the ingenuity of California’s Kumeyaay Indians.

**Fee:** \$155 per 1.5-hour program (includes Museum admission for up to 25 students—additional students \$6 each).

**Group size:** 25 student maximum per 1.5-hour program.

#### **Cetacean Sensation** at the Museum

Discover the power of whale chatter and what is on the menu for our marine cousins. Compare your teeth to whale teeth. Eat like a baleen whale. Build a whale to illustrate beneficial adaptations. Put your hand in “blubber” to feel how it insulates and protects whales from cold waters.

**Fee:** \$155 per 1.5-hour program (includes Museum admission for up to 25 students—additional students \$6 each).

**Group size:** 25 student maximum per 1.5-hour program.



#### **Amazing Arthropods** at the Museum

Come learn about your neighbors: the insects, arachnids, and a surprise backyard crustacean. Discover how arthropods use sight and smell to be such great survivors. Observe and discuss life cycles and touch a live specimen!

**Fee:** \$155 per 1.5-hour program (includes Museum admission for up to 25 students—additional students \$6 each).

**Group size:** 25 student maximum per 1.5-hour program.

## Outreach Workshops—Life Science

If you schedule multiple workshops in one day at your school site, all workshops must be held in the same room.

### Preschool and Kindergarten (4–5 years)

#### **Mesozoic Mysteries** at your school site

Take a pretend visit to the Mesozoic past. Discover what types of animals lived millions of years ago, what they ate, and how big some of these animals were. Touch a real dinosaur fossil. Describe and match fossils. Learn a song and make a “fossil” to take home.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 20 student maximum per one-hour program.

#### **Tide Pool Wonders** at your school site

Make a tide pool in your classroom. Sit on a felt rock and feel the tide washing in and out. Eat like a piddock and barnacle. Hold on the way abalone and sea stars do to keep from being pulled into the ocean. Make a tide pool craft to take home.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 20 student maximum per one-hour program.



#### **Mammals Classified** at your school site

Mammals are one of the six main classes of animals. They inhabit almost every environment on the planet. What distinguishes a mammal from other animal classes? Sort the facts and use your scientific skills to explore the diverse and fascinating world of mammals. Identify habitats, compare furs and make a mammal track!

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 20 student maximum per one-hour program.

### PreK–2

#### **Ms. Frizzle’s Classroom Adventures** at your school site

Reinforce State Science Standards while being entertained. Invite Ms. Frizzle, Scholastic’s favorite science teacher from *The Magic School Bus*® series, to your classroom. Students will take chances, make mistakes, and get messy with ‘the Frizz’...a perfect reward for your class! Uncover fossils with *Digging into Dinosaurs*, learn about pollination through *Bats are Beautiful*, or become familiar with the intricacies of the honeybee lifecycle in *The Bee Olympics*.

**Fee:** \$275 for one 45-minute program; \$300 for two programs; \$350 for three programs.

**Group size:** 60 student maximum per 45-minute program.



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### Grade 1

#### **Flora and Fauna** at your school site

Learn how plants and animals get their jobs done by observing clues from our environment. Investigate nests, skulls, and other Museum specimens. Match seeds with their correct mode of travel. Participate in a “pollination play” and discover small secrets of the life around us.

**Fee:** \$210 for two 1.5-hour programs.

**Group size:** 25 student maximum per 1.5-hour program.

### Grade 3

#### **Survivor!** at your school site

Discover the elegance of survival with real specimens. Life forms adapt to meet the challenges and opportunities in an environment. Investigate the power of successful adaptations and take a closer look at some of the Earth’s most famous extinctions. Invent a unique species and explain how its adaptations would allow it to survive or to go extinct.

**Fee:** \$210 for two 1.5-hour programs.

**Group size:** 25 student maximum per 1.5-hour program.

### Grades 4–6

#### **Eyes on Nature** at your school site

Connect science and language arts. Explore shapes found in the natural world. Using loupes, identify patterns in animal and plant specimens. Draw the shapes you see and write analogies to describe these patterns. Theorize how form follows function in nature and how shape may benefit a specimen.

**Fee:** \$210 for two 1.5-hour programs.

**Group size:** 32 student maximum per 1.5-hour program.



## Outreach Workshops—Earth/Physical Science

If you schedule multiple workshops in one day at your school site, all workshops must be held in the same room.



### Preschool and Kindergarten (4–5 yrs)

#### Cloud Science at your school site

Your students will “sit on clouds” and learn how to identify basic cloud types through song, art, and experiment. Students will be introduced to the water cycle by playing a game and will make a cloud craft they can take home.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 20 student maximum per one-hour program.

### Grades K–3

#### Autumn Harvest Hits the Road at your school site

What does it mean to hunt and gather? Step back in time! Grind acorns, scrape yucca leaves to discover fibers, investigate hunting strategies, and find out if your students can match the ingenuity of California’s early Kumeyaay Indians.

**Fee:** \$210 for two 1.5-hour programs.

**Group size:** 25 student maximum per 1.5-hour program.

### Grade 2

#### Earth Detective at your school site

Crack the Earth’s crust and be an Earth detective! Investigate the ingredients on Earth including dirt, rocks, minerals, and fossils. Shake rocks to demonstrate weathering and erosion. Group activities reinforce soil-water retention concepts.

**Fee:** \$210 for two 1.5-hour programs.

**Group size:** 25 student maximum per 1.5-hour program.



### Grade 4

#### Read a Rock at your school site

No more mock rocks! The real deal comes to your classroom. Categorize rocks based on their physical properties. Illustrate the rock cycle using Starburst candies. Classify minerals based on the testable properties of color, luster, streak, and hardness.

**Fee:** \$210 for two 1.5-hour programs.

**Group size:** 32 student maximum per 1.5-hour program.



### Grade 5

#### It’s Elemental—The State of Things at your school site

Chemistry is basic to an understanding of the natural world and an important part of fifth-grade science standards. Investigate the states of matter. Hypothesize how atoms move as water changes from a solid, liquid, and gas. Take a scavenger hunt through the periodic table and discover how much metal is in your body!

**Fee:** \$210 for two 1.5-hour programs.

**Group size:** 32 student maximum per 1.5-hour program.

#### It’s Elemental—Making and Breaking Bonds at your school site

Have fun in this more advanced chemistry class. Take a closer look at the make-up of atoms, elements, molecules, and compounds. Conduct experiments that create physical and chemical reactions using household items. Investigate molecular bonding by creating a bouncy putty polymer.

**Fee:** \$210 for two 1.5-hour programs.

**Group size:** 32 student maximum per 1.5-hour program.



## Museum Access Fund Teacher Testimonials

### From a teacher at Encanto Elementary whose students participated in Amazing Arthropods:

"To the wonderful staff at the San Diego Natural History Museum and most especially Katy More, I cannot truly convey to you the power of your gift to our 1<sup>st</sup> grade Encanto Elementary students. For most of our students this was their first museum visit ever and you made quite an impression... from the 3D bug movie, to the dinosaur animatronics, the fantastic bug exhibit, and the hands-on activities with Katy, our kids are buzzing with excitement. They learned so much that many of them now feel they are arthropod experts! The next day the classroom conversation was filled with queries like 'Did you know that roly polys have gills?' or 'Spiders aren't insects; they're arachnids. Want me to tell you the difference?' We have been studying life cycles as part of our current science unit, so our trip to your museum inspired deeper conversation and triggered their curiosity about a whole new world that was literally right under their feet. You have made a difference for my 17 students that I plan to build on."



### From a teacher at Fallbrook Street School whose students participated in Amazing Arthropods:

"I want to thank you very sincerely for providing our kindergarten students with the amazing experience of the San Diego Natural History Museum. Fallbrook Street School is the home away from home for many underprivileged children. The majority of our students never leave Fallbrook, and when they do it is merely to go to our neighboring cities of Oceanside or Temecula. I took a survey prior to our trip and not one of the students in our class had visited a museum of any type. Imagine their delight when they arrived at theNAT!"

Without your gracious and generous gift we would not have been able to provide this experience. Our class was thrilled with the Ocean Oasis movie. They were in awe of the awesome dinosaur exhibition, and the insects thrilled them. We attended the class 'Amazing Arthropods' which aligned perfectly with our California Science Standards and our current California Treasures Unit 'Amazing Creatures!'

I cannot thank you enough for your support. Our students may only be 5 or 6, but I truly believe this was an experience they will remember for a lifetime!

Thank you so much for supporting local schools in educating our children."

## High School Programs at the Museum



### Grades 9–12

#### **The Science of Collections-based Research** *at the Museum*

Why do natural history museums collect so much stuff? Learn how we organize, preserve, and use collections to further our knowledge about the ecology and evolution of life on this planet. Students will receive a brief introduction to collections-based research from a Museum curator before dividing into groups for a behind-the-scenes guided tour of different research collections. The experience concludes with students regrouping for a facilitated discussion on the different collections visited.

**Fee:** \$9/student

**Group size:** 45 student maximum per two-hour program

**Duration of class:** two hours

#### **Evolution in San Diego** *in the Fossil Mysteries Exhibition*

Where is evidence for the theory of evolution found right here in the San Diego region? Learn how the fossil record provides clues to the dramatic changes in our environment and plant and animal species over 75 million years. Guide your students through the *Fossil Mysteries* exhibition as they explore the concepts of mass extinctions, natural selection, and "survival of the fittest." Students will complete a self-guided field journal.

**Fee:** included in Museum admission

## Docent Programs at the Museum *New!*

The following Docent programs, originally only offered as Outreach classes, are now available for **PreK (4–5 yrs) on Fridays and K–2 grades Tuesday through Friday** at the Museum. Cased and touchable specimens will be available in each of these engaging programs. All programs have Docents presenting to small groups.

### Grades PreK–2

#### Habitats of San Diego County:

##### Desert

How do plants and animals of the desert survive in such a dry environment? Using exhibits, puppets, and models, students will learn how plants and animals adapt to the desert habitat. Students will participate in songs, stories, and activities.

**Fee:** \$8 per student

**Group size:** 30 student maximum per one-hour program.

##### Ponds

Meet the creatures of the air, land, and water as they interact in the fresh water environment of the pond. Students will enjoy the use of exhibits, puppets, and models for hands-on learning including the metamorphosis of insects and frogs. Students will participate in songs, stories, and activities.

**Fee:** \$8 per student

**Group size:** 30 student maximum per one-hour program.

##### Oceans

The saltwater environment of marshes and ocean are an integral part of San Diego County. Students will learn how the animals and plants are so well-adapted to the saltwater environment. Students will enjoy the use of exhibits, puppets, and models for hands-on learning. Students will participate in songs, stories, and activities.



**Fee:** \$8 per student

**Group size:** 30 student maximum per one-hour program.

##### Forests

Explore the exciting world of forests, the only habitat in San Diego County in which both plants and animals must adapt to seasonal changes in climate. Enjoy puppets, stories, specimens, songs and activities.

**Fee:** \$8 per student

**Group size:** 30 student maximum per one-hour program.

## Docent-led Tours at the Museum

The following Docent-led tours are available Tuesdays, Wednesdays, and Thursdays.

### Grades 2–12

#### *Water at the Museum*

Water is life; life is water. Students will learn how plants and animals of San Diego County adapt to their specific habitat. Water conservation, where we get our water, how we use our water, and where our water goes will be included.

**Fee:** \$8 per student

**Group size:** 32 student maximum per one-hour program

### Grades 2–8

#### *Habitats of San Diego at the Museum*

San Diego County has more biodiversity than almost any other place in our country. Students view the varied habitats of the seacoast, valleys and mesas, mountains, and desert. Students will also observe a live snake and discuss the adaptations necessary for its survival. This is similar to the *Roadrunners* outreach program. (See page 19).

**Fee:** \$8 per student

**Group size:** 32 student maximum per one-hour program

### Grades 2–4

#### *Door to the Desert at the Museum*

Small groups will focus on different aspects of the desert including soil percolation, weathering, and plant and animal adaptations. Following this discussion, students will visit a curator (botany, herpetology, paleontology, entomology, or small mammals and birds).

**Fee:** \$9 per student

**Group size:** 30 student maximum per two-hour program

### Grades 3–8

#### *Explore Fossil Mysteries at the Museum*

San Diego County has a fascinating history with fossils from 75 million years ago on display at the Museum. Students tour seven epochs with a Docent and ponder the evidence for past climates, environments, and extinctions. Familiar and bizarre animals are encountered from San Diego and Baja California. This is similar to the *Fossil Tales* outreach program. (See page 19)

**Fee:** \$8 per student

**Group size:** 32 student maximum per one-hour program



## Docent Outreach—Museum on Wheels!

The following Museum on Wheels! programs are available for **PreK (4–5 yrs) on Fridays and K–2 grades Tuesday through Friday**. Docents will bring cased and touchable specimens to your classroom in each of these engaging programs. All programs have four Docents presenting to small groups.

If you schedule multiple workshops in one day at your school site, all workshops must be held in the same room.

### Grades PreK–2

#### Habitats of San Diego County:

##### **Desert** at your school site

How do the plants and animals of the desert survive in such a dry environment? Using exhibits, puppets, and models, students will learn how plants and animals adapt to the desert habitat. Students will participate in songs, stories, and activities.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 24 student maximum per one-hour program.



##### **Ponds** at your school site

Meet the creatures of the air, land, and water as they interact in the fresh water environment of the pond. Students will enjoy the use of exhibits, puppets, and models for hands-on learning including the metamorphosis of insects and frogs. Students will participate in songs, stories, and activities.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 24 student maximum per one-hour program.



##### **Oceans** at your school site

The saltwater environment of marshes and ocean are an integral part of San Diego County. Students will learn how the animals and plants are so well-adapted to the saltwater environment. Students will enjoy the use of exhibits, puppets, and models for hands-on learning. Students will participate in songs, stories, and activities.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 24 student maximum per one-hour program.

##### **Forests** at your school site

Explore the exciting world of forests, the only habitat in San Diego County in which both plants and animals must adapt to seasonal changes in climate. Enjoy puppets, stories, specimens, songs, and activities.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 24 student maximum per one-hour program.



The following Museum on Wheels! programs are available **Tuesdays, Wednesdays, and Thursdays**.

Museum on Wheels! Docents will bring cased animal, plant, and geologic specimens to your classroom in each of these engaging programs. All programs have five or six Docents presenting to small groups.

Please schedule programs in the same room per school visit.

### Grades K–2

##### **Incredible Insects** at your school site

Program begins with an introduction to insects and arachnids. Students visit stations highlighting: Social Insects, Butterflies and Moths, Metamorphosis, Beetles, and Live Insects and Other Arthropods.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 30 student maximum per one-hour program.

### Grades 3–6

##### **Nature's Night Life** at your school site

Students are introduced to nocturnal animals and their special adaptations for life in San Diego County. Stations highlight: Things that Fly at Night, Animals that Can't Stand the Heat, Finding Food at Night, Live Animals, and Demonstrations.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 32 student maximum per one-hour program.

##### **Life in the Desert** at your school site

This program discusses the geology, plants, animals, and their adaptations for the extremes of life in our Anza-Borrego desert. Stations highlight: Cactus Scrub and Rocky Hillside, Dry Wash and Oasis, Badlands and Dunes, Low Desert, and Live Animals.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 32 student maximum per one-hour program.

##### **Roadrunners** at your school site

Students are introduced to five habitats in the most biologically diverse county in the U.S.—San Diego! Stations highlight: Seacoast, Coastal Plain, Foothills, Mountains, and Desert. Run around the county like a roadrunner!

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 32 student maximum per one-hour program.

### Grades 3–8

##### **Fossil Tales of San Diego** at your school site

Students are guided through 75 million years of our county's fossil history with stations highlighting: Cretaceous, Eocene and Oligocene, Miocene, Pliocene, and Pleistocene. Models and casts of familiar and bizarre creatures that roamed our county are shared.

**Fee:** \$155 per visit for two one-hour programs.

**Group size:** 32 student maximum per one-hour program.

SAN DIEGO NATURAL HISTORY MUSEUM

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