

## Badge Programs

Programs are 90 minutes and include a range of activities and at least one craft to be taken home. Cost is \$8 per child with a 10 person minimum. To learn more or to sign your group up today, contact the education staff at (408) 298-7657.

Upon completion of the following *Friends of Guadalupe River Park & Gardens* educational programs, you will fulfill the following badge requirements:

GRPG Program	BADGE REQUIREMENT
<b>Daisy (Grades K-1)</b>	
Flower Power	Rose Petal: Making the World a Better Place
River Sleuths	Green Petal: Use Resources Wisely
	Rose Petal: Making the World a Better Place
Migration Mysteries	Rose Petal: Making the World a Better Place
Worms & Squirms	Rose Petal: Making the World a Better Place
Shake, Rattle & Roll	Red Petal: Courageous and Strong
The World Next Door	Purple Petal: Respect for Myself and Others
Have a Heart	Spring Green Petal: Considerate and Caring

<b>Brownies (Grades 2-3)</b>	
River Sleuths	Animals #2: Understanding Animals #4: Looks Mean Something
	Earth & Sky #3: Going, Going, Gone
	Eco-Explorer #1: Exploring Nature # 2: What's a Habitat?
	Plants #2: Plant Rubbings #4: Leaf Hunt
Flower Power	Eco-Explorer #1: Exploring Nature #2: What's a Habitat?
	Friends are Fun #6: Flower Power
	Make It, Eat It #4: Green Thumb
Dig In!	Puppets, Dolls & Plays #2: Yarn Doll

	Listening to the Past #2: If These Buildings Could Talk
	Listening to the Past #6: Games of the Past
Wriggly Worms	Watching Wildlife #4: Earthworm Observation
	Earth is Our Home #2: Project Recycle
Migration Mysteries	Eco-Explorer #6: Helping Wildlife
	Science in Action #4: A Butterfly of Many Colors
Hoot, Hoot, Who?	Eco-Explorer #2: What's a Habitat? #4: Food Chain
Plant a Pizza	Make It, Eat It #4: Green Thumb #5: Recipe Book
	Plants #1: Seed Race #2: Plant Rubbings #3: Baby Beans
The World Next Door	Around the World #3: Books
	People of the World #6: Flags of Many Countries
	Playing Around the World #5: Jan-Ken-Pon
Shake, Rattle & Roll	Earth & Sky #6: Make a Rock
Have a Heart	My Body #3: Funny Face #4: Body Volley #6: Pulse #7: A Fit Body

GRPG Program	BADGE REQUIREMENT
<b>Juniors (Grades 4-5)</b>	
Flower Power	Outdoor Creativity #6: Your Own Garden #7: A Garden Tour
	Plants & Animals #2: Garden Gifts #9: What a Pest!
Dig In!	Local Lore #7: Take a Trip
	My Heritage #5: From Yesterday to Today
	Earth Connections # 8: Plants & People
Wriggly Worms	Earth Connections #10: Earth as an Ecosystem
	Eco-Action #8: Clean & Healthy
Nature Navigators	Camp Together #6: Challenge Yourself
	Finding Your Way # 2: North, South, East, West
	Your Outdoor Surroundings # 5: Outdoor Hobby
Water Rustlers	Earth Connections #1: Be an Ecologist

	Earth Connections #10: Earth as an Ecosystem
	Water Fun #7: Precious Water #8: Look Closely
	Wildlife #7: Take a Closer Look
	Oil Up #5: Make and Clean Up an Oil Spill
	Water Wonders #2: The Water You Drink #4: Life Underwater #5: Water Food Chain
	Science Discovery #8: Environmental Observer
Name That Plane	Aerospace #1: Paper Airplanes #4: Think Sky High
Migration Mysteries	Outdoors in the City #3: Urban Wildlife
	Wildlife #4: We Are Family #6: Staying Alive
Shake, Rattle & Roll	Rocks Rock # 3: What Type is It? #7: Around the Globe
	Science Discovery #5: Act Like a Scientist
	Globe Trotting #5: Be Aware – Be Prepared!
Hoot, Hoot, Who?	Earth Connections # 7: Adapt or Perish?
	Wildlife #3: Creature Feature
The World Next Door	Global Awareness #1: Where in the World #3: Show Your Colors #4: International Friendships #7: Walk in Their Shoes
	Humans & Habitats #7:Break Bread
	World Neighbors #1: Global Games #3: Traditions #8: It's a Small World #10: Clothing All Over the World
Have a Heart	A Healthier You #6: Preventable or Inevitable #8: Get Well Soon #9: Keeping Track
Plant a Pizza	Let's Get Cooking #1: Keeping it Clean #4: Something For Everyone #6: New Wave Chef #10: The Big Change
	Humans and Habitats #6: Make a Food Map
	Plants & Animals #2: Garden Gifts

## **Program Descriptions:**

### **Dig In!: (1.5 hours)**

Walk back in time as we explore the historic orchard and the Valley of the Heart's Delight. Sample fresh (if available) and dried fruits as we learn what life was like on an orchard or farm. Grind acorns like the Ohlone Indians and go on a simulated archaeological dig as we unearth artifacts left behind from people long ago. Make a corn husk doll and a fruit box label to take home.

### **Flower Power: (1.5 hours)**

Discover the Heritage Rose Garden, home to the largest collection of antique and modern roses in the Western Hemisphere. Dissect a rose to see its reproductive parts and learn how seeds are made. Explore the world of bugdom by searching for pollinators in the garden and learn how lady bugs not only grow, but are helpful to our plants. Plant a seed in a biodegradable pot to plant in your home or community garden and pick your very own rose to take home.

### **Have a Heart (1.5 hours)**

How many times will your heart beat during your lifetime? If you live to be 66 years old it could beat as many as 2.5 billion times! Spend the time around Valentines Day discovering how our hearts work. Travel inside your body and take a closer look at how this organ functions and compare your heart to those of other animals. Make a valentines craft to take home and show someone just how big and caring your heart is. Come on, have a heart!

### **Hoot, Hoot, Who? (1.5 hours)**

Join us for a "hoot" of time learning about the owls that may be found along the banks of the Guadalupe! The fun will include learning games and dissecting owl pellets to find out what they like to eat – both fascinating and gross! Discover the amazing adaptations these creatures have for being nocturnal hunters.

### **Migration Mysteries (1.5 hours)**

Discover why salmon return to the Guadalupe River each fall and see if you could survive the long journey in a salmon survival game. Get up close and personal with live butterflies as we learn about metamorphosis and why monarchs spend their winters on the West Coast. Make a butterfly magnet using chromatography to decorate your fridge at home. You're the detective in this animal mystery of migration so bring your detective eye and a sense of adventure.

### **Name That Plane: (1.5 hours)**

Calling all airplane enthusiasts! Become a plane spotter learn how to identify different aircrafts. Record your sightings in your very own spotting journal. We will explore the basic physics of flight and take a closer look at the engineering that allows planes to fly. Design your own paper airplanes and test them at our unique location near the flight path of San Jose International Airport.

### **Nature Navigators: (2 hours)**

Arrrr! The time of pirates might have long since past, but we can still hunt for treasure in the park. Travel back as we learn about early navigation and how explorers of the past found their way across the land and ocean. Use GPS Technology to venture out into the park and search for caches, or hidden containers, and answer questions to find the final cache location. Test your navigating skills, workout your brain and body, and have fun with technology in the river park.

**Plant a Pizza (1.5 hours)**

What makes pizza taste so good? Freshly grown ingredients, of course! Come learn about where your food comes from. Plant basil, oregano, tomatoes and wheat to take home for your very own pizza herb garden. Grind wheat and sample fresh ingredients as we make mini pizzas for a delicious afternoon snack. Mmmm...learning never tasted so good!

**River Sleuths: (1.5 hours) Includes a river activity book**

Explore one of Silicon Valley's most precious natural resources: the Guadalupe River! Conduct a scientific exploration along the river and search for plants, bugs, & birds. Discover and learn what animals need in order to survive in the river habitat. Check river conditions and see if they are suitable for the plants and animals that live here. Record your findings in a river activity book.

**Shake, Rattle & Roll (1.5 hours)**

Shake things up in this fun class that rocks! Learn how the Earth's plates move and what happens at different plate boundaries: are there mountains, volcanoes or earthquakes? Build a volcano to take home and erupt again and again. We will create a yummy snack that shows the inside of the Earth and all of its layers. Design a plan and learn how to keep your family safe living in earthquake country.

**Water Rustlers: (1.5 hours)**

Do you know where your water comes from? What happens to the water from the Guadalupe River once it leaves San Jose? We will become scientists as we do chemical tests and an aquatic insect survey to see just how clean and healthy the Guadalupe River is. Where does all the pollution come from? Make a mess of the Santa Clara Valley using a watershed model to discover the sources of river pollution and ways that we can stop it. You're the environmental engineer as we simulate an oil spill and find the best possible method for cleaning it up.

**The World Next Door (1.5 hours)**

Bring your imaginary passports for an afternoon of global travel as we explore the seven sister cities of San Jose. Discover the history and culture of these unique places around the world. Hear traditional stories, make crafts, listen to music, and sample breads from Russia, Mexico, Costa Rica, Japan, Taiwan, India and Ireland. Learn to play a new game and say hello and goodbye in another language. ¡Que divertido!

**Wiggly Worms (1.5 hours)**

What's green and brown, rotting and smelly? A worm's favorite food of course! Learn all about worms in this fun program designed to cut down on waste and bring an ongoing project into your home or classroom. Discover the anatomy of worm, from its crop to its five hearts, and make a disgusting, yet yummy, dirt cup to eat. Become a worm composting expert as we set up your very own group worm bin to take home.

**This list is ever growing and any of our after school programs can be done at another time, privately for your group! Watch for new classes on our website, [www.grpg.org](http://www.grpg.org), to see if a class fits the badges your group is working on.**