

Girl Scout Badgework

DAISIES

Rose Petal: Making the Earth a Better Place

_____ Make a **Pinecone bird feeder**

_____ Make a food chain at **Scout Central**

_____ Play **Frog Hop** to understand ecosystems

_____ Picking up litter around the Festival and put it in trash containers

Green Petal: Using Resources Wisely

_____ Make a nesting material source at **Nesters**

_____ Play the **Water Cycle Game**

BROWNIES

Eco-Explorer Try It

_____ What's a Habitat? Check out the habitats at **Aquatic Ecosystems** and **Aquatic Insects**. Learn about the habitats of other animals from their exhibitors.

_____ Food Chain - Do the food chain activity at **Scout Central** or learn what owls eat at **All About Owls**

_____ Helping Wildlife -Make a **Pinecone bird feeder** or nesting material source at **Nesters**

_____ Pick up litter, including fishing line and debris from around the Festival and the lake, and put it in a trash container

_____ BONUS: Talk to the rehabilitators to see how they help wildlife

Earth and Sky Try It

_____ Creatures of the Air - Make sure to take notes when visiting the wild bird rehabilitators and be ready to share what you discover!

_____ Visit **Bird Behavior Bingo** to see birds through binoculars

_____ Take a bird walk with the **Audubon Society**

JUNIORS

Wildlife Badge

_____ It's All in the Details. Add to the art at **Mural, Mural on the Wall**

_____ Creature Feature. Check out **Beaks and Bites** in Water World

_____ Staying Alive. Talk to any wildlife rehabilitator about endangered species—
Why are they endangered and what is being done to protect them?

_____ Take a Closer Look. Use the microscopes at **Aquatic Ecosystems** and **Plant Parts**, or binoculars and spotting scopes at **Bird Behavior Bingo**

_____ Animal Watcher. Take a bird walk with the **Audubon Society**.

_____ Talk to any animal exhibitor staff, volunteers and rehabilitators about the unique characteristics of the bugs, birds and animals they work with.

Earth Connections

_____ Eco-Games. Play the **Water Cycle Game** or **Frog Hop**. Try the food web puzzle at **Scout Central**

_____ Saving Plants and Animals. You are at a preserve! Talk to volunteers at the Riparian Institute and learn why the preserve exists and what research is being done.

_____ Plants and People. Learn what we eat in **Plant Parts**.

Outdoor Creativity

_____ Add to the art at **Mural, Mural on the Wall**.

_____ Create art at the **Origami or Art and Nature** booths

Your Outdoor Surroundings

_____ An Outdoor Hobby. Take a bird walk with the **Audubon Society**.

Visit **Bird Behavior Bingo** to learn about binoculars and spotting scopes.

_____ An Outdoor Career. Talk to exhibitor staff and rehabilitators about what work they perform outdoors.

Girl Scouts - Towards an Interest Patch

_____ Take a bird walk with the **Audubon Society** or talk to one of the Bird Rehabilitators and learn about five birds in your community. Use a field guide to identify each bird.

_____ Take a bird walk with the **Audubon Society** and learn to identify five birds by their songs or call notes.

_____ Take a bird walk with the **Audubon Society** or visit one of the rehabilitators and learn about three different types of birds. Include in your study vocalizations, flight patterns, nesting and feeding habits, and threats to survival.

_____ Visit **Bird Behavior Bingo** to learn how to use a spotting scope in the field.

_____ Visit one of the rehabilitators and find out about their work.

_____ Visit the **Town of Gilbert, Wastewater** exhibit and find out about an environmental issue that affects your community. Gather information and share with others.

_____ Visit the **Town of Gilbert Water Conservation** table and learn about the importance of drip systems.

_____ Walk around Pond 7 and record your observations.

_____ Take the **Gardens Tour** and identify as many of the flowers, shrubs, and trees as you can.

_____ Choose three species for in-depth study from: birds, mammals, insects, reptiles, trees, or herbaceous plants.

_____ Visit the **Town of Gilbert's** table to find out how insecticides travel through an ecosystem.

_____ Arrange to shadow a wildlife biologist. - talk to **the Riparian Institute Ranger** or **AZ State Parks rangers**

_____ Learn what environmental conditions make a desert. How does our desert differ from other deserts?

_____ Identify 10 animals common to our desert.

_____ Find out what plants and animals are now extinct from our desert

Boy Scout Badgework

TIGER

Elective 22 - Picnic (on hillside between Rattlesnake Ramada and playground snake wall) You may bring food in or support the Riparian Nature Center Building fund by buying pizza & beverages at Rattlesnake Ramada.

Elective 31 - Learn About Animals

Elective 32 - Make a **Pinecone Birdfeeder**

WOLF

Achievement 4 - Know Your Home and Community

4f - Visit an important place in your community and know why it's important. The Riparian Preserve at Water Ranch is the site (7 ponds) where the Town of Gilbert recycles 100% of its wastewater (that goes down your drains at home). Talk to the people from

Town of Gilbert Waste Water Dept. and Environmental Programs Dept. and Water Conservation Dept. Also visit the **Central Arizona Project** exhibit. See the permanent sign at the front of the preserve explaining how the water is recycled.

Achievement 7 - Your Living World

7b - Dirty Water - see the exhibits mentioned in Achievement 4 plus Mesquite High School's "**Don't Feed the Ducks**" display.

Elective 12 - Be An Artist

a - Draw a free hand sketch - Visit **Mural Mural on the Wall** at the Restroom area and sketch and paint plants or wildlife found in Riparian areas; or visit a bird rehabilitator to draw a live bird (raptors, injured birds); or the **Riparian Institute** tables (to draw insects); or **Arizona Herpetological Association** (to draw lizards, snakes, turtles).

e - Stencils - Visit **Mural Mural on the Wall** and select from lots of stencils to use on the mural

Elective 13 - Birds

- a - Take a Birdwalk at the Festival led by **Audubon Society**.
- b - Nesting materials - Go to **Nesters** and make a "Nester" of yarn, dryer lint, and other materials attractive to nestbuilding birds
- d - Visit Bird rehabilitators to see different kinds of birds being healed
- e - Make a **Pinecone Birdfeeder**. Take it home and write down what birds come to eat.

Elective 15 - Grow Something

- e - Visit a botanical garden - walk through the Riparian Cactus Garden and walk a few of the 4 1/2 miles of hiking trails through the preserve, and read the large signs which tell which of the 17 AZ Plant Communities you are entering. Each area has plants unique to that altitude and condition.

Elective 18 - Outdoor Adventure

- List as many insects as you can find in two minutes - take the Mesquite Highschool **Aquatic Insect** tour and visit the **Southwest Insects** display.

BEAR

Achievement 5 - Share the World with Wildlife

- a - Visit **Bird Rehabilitators** to see many varieties of live birds and learn about the work of Bird Rehabilitators; Visit **Arizona Herpetological Association** to see people who work with these live animals.
- b - Visit Bird Hollow to make a **pinecone birdfeeder**.
- d - Visit a Wildlife Preserve. The Riparian Preserve at Water Ranch, location of the Festival, is a wildlife preserve for animals displaced by all the building in Gilbert.
- e - Visit the wildlife rehabilitator's exhibits to find out about extinct and endangered species.

Achievement 6b - Care of your planet - Plant a seedling at **What's In A Seed**

Achievement 12d - Family Outdoor Adventures - Attend the Festival.

Elective 9 - Art

- a - Paint at **Mural Mural on the Wall**, create art at the **Origami** and **Art and Nature** booths.

Elective 15 - Water and Soil Conservation

- a, d, e – Visit the **Town of Gilbert** Water Team

WEBELOS

Naturalist Activity Badge -

- 3 - Go see the **Southwest Insects**
- 5 - Birds - Go on the **Audubon Society** bird walks at Bird Hollow.
- 6 - Bird Flyways - Visit the Maricopa Audubon Society tables at Bird Hollow.
- 7 - Venomous Reptiles - Visit **Arizona Herpetological Association** to see exhibits about reptiles.
- 8 - View fish, birds and rabbits in their natural habitats at the Festival on a hike around Pond 7.
- 9 - Food Chain - Do the food chain activity at **Scout Central** or learn what owls eat at
All About Owls
- 10 - the Festival celebrates the unique animals, plants and birds in our Sonoran Desert region so every exhibit and activity teaches about this.
- 11 - The Riparian is a manmade wetland and riparian habitat.

Boy Scout Badge Work

TENDERFOOT-# 11. Identify local poisonous plants and tell the treatment for exposure.

Art-# 3 Participate in **Mural Mural on the Wall** where festival-goers use various mediums to portray a riparian scene and the animals, insects, and other living things they have seen in nature. Create art at the **Origami** and **Art and Nature** booths.

Bird Study - **Audubon Society** members can help with # 1, # 2, 4, 5, 6 & 7. Usually a minimum of 35 species of birds can be seen during a one-hour walk at the Riparian.

Environmental Science- # 2 Exhibits will also include **Town of Gilbert** staff for Wastewater, Conservation, and Environmental Programs who are valuable resources for fulfilling # 6,7 and 8.

6(a) Over 25 species of wildlife will be on display at the festival with their rehabilitators, owners/educators, and Wildlife officers who can give much information about each.

6© Landscape Architecture - The Riparian was once a cotton field. Scott Anderson of the **Riparian Institute** worked with landscape architects to create a combination wastewater recycling facility and nature preserve.

3. Do the food chain activity at **Scout Central** or learn what owls eat at **All About Owls**

4(a) Join an **Audubon Society** bird identification walk.. You will see over 25 species.

4(b) The Sonoran Desert is home to a number of mammals. Visit **Arizona's Mammals** to see things about them.

4(c)(1, 2, 3) **Arizona Herpetological Association** will have exhibits of reptiles.

4(g)(1,2) An Eagle Scout has made plant identification markers along some of the 4 1/2 miles of hiking trails at the Riparian.

Reptile and Amphibian Study – **Arizona Herpetological Association and Simply Tortoises** will help scouts answer #1, #2, #3 (a-e), #4, #5, #6, #7, #9(a, b), #10

Soil and Water Conservation - **Town of Gilbert** Water Conservation specialists will have an exhibit at the festival to help with #5, 6, 7 Also **UA Water Resource Center** exhibits will help scouts learn about #1, 2,3, 5.