



WORLD
FORESTRY
CENTER



GIRL SCOUTS

WORLD FORESTRY CENTER
DISCOVERY MUSEUM
&
MAGNESS MEMORIAL TREE FARM

GIRL SCOUT BADGE CONNECTIONS

A SILVER AWARD PROJECT
BY LAUREN BOLES
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The **World Forestry Center Discovery Museum** is located in Portland's Washington Park. It's a great place to bring your troop to learn about the amazing forests of the Pacific Northwest and around the world.

Magness Memorial Tree Farm is located near Wilsonville, Oregon. It's an 80 acre demonstration forest and outdoor education site that is operated by the World Forestry Center. The rustic bunk houses, picnic shelters, campfire ring and forest hiking trails make it a perfect location for Girl Scout camp-outs!

Log onto www.worldforestry.org to get all the information about how to book a reservation, hours of operations, group rates, programs for girl scouts and other essential trip planning basics.

DAISY PETALS



Green Petal - Use Resources Wisely

Visit the **World Forestry Center Discovery Museum** to earn this petal. Stop by the following exhibits:

- *Discover the Forest* – Find the animal tracks and check out the wildlife that lives in the forest. Guide the Tree-Cam to see what lives in the forest top.
- *There is a lot Happening Underground* – Check out the habitats of the animals that live under the trees.
- *River Raft Adventure* – Put on a life jacket and climb in for an exciting virtual whitewater raft ride.
- *A Rotten Place to Live* – Crawl through the fallen log to see how it plays an important role in sustaining life in the forest.
- *Forest Symphony* – Press the buttons to hear the sounds of the forest.
- *Plant it Right Here* – Learn how to properly plant a seedling. Dig in!
- *Green Giants* – See if you can you guess how old this tree is.
- *Check Out Your Choices* – Should you use wood, metal, paper or plastic?
- *Canopy Bridge* – Walk across the second floor canopy bridge. See if you can find all of the animals on the trees.
- *World Forest Tour* – Go upstairs and take a world tour through the four forest types. Travel by train, river boat, safari jeep and canopy crane gondola through the forests of Russia, China, South Africa and Brazil.

BROWNIE TRY-ITS



Earth and Sky

(Visit **Magness Tree Farm** to earn this Try-it.)

- #1 – *Can You Dig It?* – Find a spot with loose soil. Be sure to carefully fill in your holes when you are through.
- #2 – *Hot Time In The Sun* – The cabin deck would be a good place to try your evaporation experiment.
- #3 – *Going, Going, Gone* – Take the short hike along the Nagle Trail to the stream to do this one. Remember to stay out of the water.
- #4 – *Sky Watching* – Lay your sleeping bag out in the meadow and study the clouds, then do the fun art project with your troop.
- #5 – *Creatures Of The Air* – There are lots of birds and insects at Magness. You might even see a bat at night!
- #6 – *Make a Rock* – If you do this one, have your leader bring the supplies. We need to keep our soil and pebbles for the wildlife.



Eco Explorer

- #1 – *Exploring Nature* – Explore the Discovery Museum to as you go on this scavenger hunt.
- #2 – *What's A Habitat?* – Visit the *Discover the Forest* exhibit in the center of the museum, or stop by the *Healthy Streams, Healthy Fish* exhibit to learn about habitats. Then see if you can unscramble the words.
- #3 – *Make a Habitat* – Learn about habitats then Try-It a troop meeting.
- #4 – *Food Chain* – Bring your strips of paper with you to the museum and complete this Try-it during your visit.
- #6 – *Helping Wildlife* – Each Brownie can decide how she wants to help wildlife.



Outdoor Adventurer

(Visit **Magness Tree Farm** to earn this Try-It.)

- #1 – *Dress for the Weather* – Do this in a troop meeting as you are planning your camp-out.
- #3 – *Day Hike* – Explore the Nagle Trail. Choose your favorite color or bring your magnifying glass.
- #4 – *Build a Shelter* – There are lots of natural things at Magness to help build your shelter. Remember to leave the area you chose the way you found it.
- #5 – *Touch, Smell, Listen* – Use your senses as you walk the Nagle Trail.



Ready, Set, Go Camping

(Visit **Magness Tree Farm** to earn this Try-It.)

- #1 – *Roll a Bag Relay* – Spread out in the meadow. Ready, set, roll!
- #2 – *Bandana Tricks* – If your group is large enough, each troop can choose their bandana color.
- #3 – *Camp Stew for You* – Use your camp stove, or a Dutch oven over the fire pit for the more adventurous.
- #4 – *Storm Warning* – A great game for the meadow!
- #5 – *Knowing Knots* – What’s a girl scout camp without knots? This is a good “rainy day activity” inside the cabins.
- #6 – *Hiking Scents* – Follow your nose around the Nagle Trail.



Watching Wildlife

- #1 – *Animal Architects* – Learn about animal habitats in the *Discover the Forest* exhibit on the first floor and then Try-it at home.
- #2 – *Animal Talk* – Visit the *Forest Symphony* exhibit and listen to the sounds. What do you think they are saying? Study the other animals in the forest. How do you think they communicate?
- #3 – *A New Wardrobe* – How many animals can you find in the Discovery Museum? You can find birds and squirrels where you live. Observe them in their natural outdoor setting to see if they change color when the seasons change.
- #6 – *Outdoor Shopping* – See if you can find two of the animals or their habitats in the Discovery Museum. Make a list of food that you think they would eat.

After your visit to the **World Forestry Center Discovery Museum**, you can take what you learned from your visit and complete other Try-Its at home or in your troop meetings. See the Earth Is Our Home, Plants or Water Everywhere in your Try-It book!

JUNIOR BADGES



Camp Together

(Visit **Magness Tree Farm** to earn this Badge.)

- #1 – *Make A Plan* – Log onto www.worldforestry.org and learn about camping at Magness Tree Farm. Then plan an outing in your troop meeting.
- #2 – *Safety First* – When you arrive at Magness, take few minutes to complete this section first.
- #4 – *Dress Right* – You can complete this one when you plan #1.
- #5 – *Fueling and Cleaning Up* – Have fun cooking your meal over a camp stove in our picnic shelter area. (Be sure to have an adult help you light the stove). Don't forget to properly clean up.
- #7 – *Pitching In* – Make your kaper chart when you plan #1.
- #8 – *Natural World* – Go on nature hike around the Nagle Trail and observe your surroundings, or plan a fun scavenger hunt.
- #9 – *The Outdoors At Night* – Roll out your sleeping bag in the middle of the meadow and gaze at the stars! Listen to the sounds of the forest at night. What can you hear, see or smell?



Earth Connections

- #3 – *Identify That Tree* – See if you can identify ten different tree species in the Discovery Museum. Use leaves, seeds, bark or fruit as a means of identification. You may find additional tree species outside.
- #4 – *Reading The Rings* – Visit the *Green Giant* exhibit on the first floor and find the giant tree slice. Look at the tree rings. Can you guess how old this tree is?
- #5 – *Eco-Games* – After your visit to the Discovery Museum make up a game that shows how plants and animals depend upon each other in the ecosystem. Play it in your troop meeting.

- #7 – *Adapt or Perish* – Go upstairs and take the *World Forest Tour* and learn about the four different forest types. How do plants and animals adapt to their different environments, whether hot or cold, dry or swampy?
- #8 – *Plants And People* – Learn about five different types of plants native to our area. Were these plants used as food, medicine, fuel or something else?
- #10 – *Earth as an Ecosystem* – Visit the *Healthy Streams, Healthy Fish* exhibit on the first floor and learn about the habitat of fish and how you can help protect this ecosystem.



Find Your Way

(Visit **Magness Tree Farm** to earn this Badge.)

- #2 – *North, South, East, West* – Grab your compass and get ready to navigate! Your leader will need to help you get started. Remember to take your buddy!
- #4 – *Walk The Distance* – Locate Magness Tree Farm on a map. Figure out how many miles it is from your house to our house, and how long it will take you to travel. Check it when you travel to see how accurate you were!
- #5 – *Map Maker* – Draw a map of the route to your favorite spot at Magness. Remember to make a legend and a compass rose. Then split up into groups and test someone else's map. Can you find their favorite spot?
- #6 – *Map of a Place* - When you arrive at Magness go exploring with your troop! When you return make a map of the cabins and grounds that show where everything is located. Remember to make a legend key that explains your symbols and a compass rose.
- #9 – *Trail Signs Traffic* – Learn about trail signs using rocks, grass and sticks. Use only loose items you can find. (Please don't pick, break off or dig up anything). Split into teams and set up a mini-trail. Teach your trail signs to the other teams and learn their trail signs. Then, have fun blazing the trails! Remember to leave the area the way you found it. The wildlife may get confused if you leave your trail signs!



Outdoor Cook

(Visit **Magness Tree Farm** to earn this Badge.)

- #1 – *Bon Appetit!* – Help plan, prepare and serve an outdoor meal. We have a great area for use under our picnic shelter.
- #3 – *Cook It* – Find out how to use at least two of the cooking methods from the list in your book. You can do both of them at Magness.
- #5 – *Cooking On A Camp Stove* – Prepare a meal on your camp stove with your troop. (Be sure to have your leader help you light the stove.)
- #6 – *Keep It Clean* – Take a lead role in the clean up process for one of the meals.
- #7 – *No Cooking Tonight* – Help plan and prepare a tasty easy-to-pack meal that requires no cooking or refrigeration. This one would be good for lunch time or to take on a hike.
- #8 – *Mix It Up* – Experiment with making your own dry mix snack. Be creative! Enjoy it on your hike.



Outdoor Creativity

(Visit **Magness Tree Farm** to earn this Badge.)

- #1 – *Many Ways To Be Creative* – Use the beautiful natural setting at Magness to inspire you to create a drawing or painting to share with your troop.
- #3 – *Nature In Three Lines* – Find a quiet place and write a haiku. There are two examples of proper haiku's in your book.
- #5 – *Celebrate Nature* – Plan a creative outdoor event that celebrates the natural beauty of your surroundings. Try a song or skit, a poetry reading, or a traditional legend. Have fun!
- #8 – *Girl Scouts Own* – Magness is an excellent location to plan an outdoor ceremony for this special Girl Scout tradition.
- #9 – *Starry, Starry, Night* – Roll out your sleeping bag in the middle of the meadow and gaze at the stars! Listen to the night sounds of the forest. Can you find any shapes in the stars?
- #10 – *Diversity In Nature* – Find two different outdoor spots and express yourself. Draw, paint, write a poem or a song. Be creative! Create two works using the same medium that represent your two favorite places.



Outdoor Fun

(Visit **Magness Tree Farm** to earn this Badge.)

- #1 – *Get Going* – Log onto www.worldforestry.org and learn about camping at Magness Tree Farm. Then plan an outing in your troop meeting. This will meet one of the two required outings for this badge.
- #3 – *Eating Out* – Plan, buy, pack, prepare and serve two meals for your outing. You decide whether it's a no-cook meal or a meal over a camp stove or fire. Remember to plan your clean up and kaper chart too.
- #4 – *Build A Fire* – Magness has a fire pit on site. Show that you can build a basic fire, prepare food on it (smores are delicious!) and properly put it out. Remember to leave no trace of your fire.
- #6 – *Protect The Environment* – Learn how to properly dispose of your waste water and garbage when outdoors. Learn how to sanitize your dishes too.
- #7 – *Sing Around The Campfire* – Songs, games and skits around the campfire are a Girl Scout tradition. Have fun!
- #9 – *Clean Up* – Help to unpack, clean and store your equipment after your group's outing.
- #10 – *Looking Ahead* – Make plans for your next trip outdoors!



Wildlife

- #1 – *Wildlife Symbol* – In your troop meeting choose a plant or animal that represents you. See if you can guess why the others in your troop chose their symbol.
- #2 – *It's All In The Details* – Pretend you are a field scientist. Sketch, draw or photograph the detail of a plant or animal, such as a flower, a bird's eye or a butterfly wing. There are lots of choices in the museum!
- #6 – *Staying Alive* – See if you can find a plant or animal that is endangered. Why are they endangered and what is being done to protect them?
- #7 – *Take A Closer Look* – Visit the *Discover the Forest* exhibit in the center of the museum. Direct the camera to take a closer look at the plants and animals that live here. It's amazing what lives in the forest!

- #8 – *Animal Watcher* – Explore the Discovery Museum to learn about the field markings and behaviors of an animal that lives in the forest. Visit the *Forest Symphony* exhibit to hear the sounds that forest animals make. Take what you learned to a park or your backyard and identify three kinds of animals in your neighborhood.
- #9 – *Nature's Remedies* – Chocolate grows on trees! See if any of the other items listed in your book come from trees or the forest. Find out about the healthful properties of three of them.



Your Outdoor Surroundings

(Do at the **Discovery Museum** and **Magness Tree Farm**)

- #3 – *What Does Minimal Impact Mean?* – Find out what minimal impact means and how you can practice it on your next hike or outing.
- #4 – *To Protect the Environment* – With your troop brainstorm ways you can help the environment. You can visit the Discovery Museum for ideas.
- #5 – *Outdoor Hobby* – Learn about an outdoor hobby such as photography, orienteering, backpacking or bird-watching. Find someone who is an expert who can teach you the basics.
- #6 – *Classifying Outdoor Objects: The Artist and Scientist* – Look around and find a number of different outdoor objects. Use the list in your book to describe them. See if your troop can guess your object!
- #7 – *Outdoor Career* – Learn about a career that is spent mostly outdoors. Visit the Discovery Museum to learn about the career of a Park Ranger, Forester or Smokejumper. Check out the *Living With Fire* exhibit and see how well you do as a smokejumper!
- #9 – *Nature Hike* – Take a color-palette hike, or a shapes-of-nature hike. Go on a night hike and see what insects you can find!

After your visit to the **World Forestry Center Discovery Museum**, you can take what you learned from your visit and complete other Badges at home or in your troop meetings. See the Eco-Action, Plants and Animals, or Outdoors In The City in your Badge book!

GIRLS 11-17 – INTEREST PROJECT BADGES

You can visit the **World Forestry Center Discovery Museum** or **Magness Memorial Tree Farm** to help you get started on these badges. Some suggested Interest Project Badges are listed below, or you may discover others in your badge book that interest you. These badges are more involved and take longer to complete (that's why they're called Interest Projects) but you can take what you learn from your visit and be on your way to completing your badge! Check out these Interest Projects in your badge book:

Camping



Eco Action



Museum Discovery



Plant Life



Wildlife

