

Boy Scout Requirements by Level

What requirements can my scout fulfill at Dinosaur Ridge's event on May 13, 2017? Check out the list below! The bullet points are Scout Requirements, and the blue text is Dinosaur Ridge booths/activities where you can complete some of the activity requirements:

Note: Some organization participants may change as scheduling is finalized closer to the date. The requirements below will still be able to be completed at our event.

Tiger Scouts:

Tiger Adventure: Backyard Jungle

- 1. Take a 1-foot hike. Make a list of all the living things you see on your 1-foot hike.

Here at Dinosaur Ridge, you can do this hike at our Visitor Center or along the Ridge trail!

- 2. Point out two different kinds of birds that live in "your" area.

Here at Dinosaur Ridge we have two different bird feeders at the Visitor Center, or keep your eyes open along the Ridge trail to see migrating and local birds in the trees and sky.

- 5. With your adult partner, go on a walk, and pick out two sounds you hear in your "jungle."

Here at Dinosaur Ridge, that walk can be along the Ridge Trail! There are plenty of sights and sounds in our neck of the woods!

Tiger Adventure: Tiger Bites

- 1. Identify three good food choices and three foods that would not be good choices.

Here at the Visitor Center, Happy Family Foods will have a "Healthy Eating Booth" where you can learn all about good and bad things to eat.

- 5. Talk with your adult partner about what foods you can eat with your fingers. Practice your manners when eating them.

Here at the Visitor Center, Happy Family Foods will have a few of their brand healthy finger foods for you to purchase or sample!

Tiger Adventure: Tigers in the Wild

- 2. Go for a short hike with your den or family, and carry your own gear. Show you know how to get ready for this hike.

Here at Dinosaur Ridge you can take your Cub Scouts Six Essentials for the Outdoors on a hike of the Ridge Trail.

- 3. Do the following:
 - a. Listen while your leader reads the Outdoor Code. Talk about how you can be clean in your outdoor manners.
 - b. Listen while your leader reads the Leave No Trace Principles for Kids. Discuss why you should "Trash Your Trash".
 - c. Apply the Outdoor Code and Leave No Trace Principles for Kids on your Tiger den and pack outings. After one outing, share what you did to demonstrate the principles you discussed.

Here at the Visitor Center you can check out the **Leave No Trace** Booth to learn more about the outdoor code, ethics in the outdoors, and what to do with trash and other ways to "leave no trace" while you're hiking or exploring your neighborhood or nearby trails.

- 4. While on the hike, find three different kinds of plants, animals, or signs that animals have been on the trail. List what you saw in your *Tiger Handbook*.

Here at Dinosaur Ridge you can complete this requirement at the Visitor Center or along the Ridge Trail.

- 6. Find two different trees and two different types of plants that grow in your area. Write their names in your *Tiger Handbook*.

Here at Dinosaur Ridge you can complete this requirement at the Visitor Center or along the Ridge Trail.

- Visit a nearby nature center, zoo, or another outside place with your family or den. Learn more about two animals, and write down two interesting things about them in your *Tiger Handbook*.

Tiger Elective Adventures: The Sky is the Limit

- 2. Look at a distant object through a telescope or binoculars. Show how to focus the device you chose.

In the Astronomy Area at the Visitor Center, Space Science will have telescopes available for scouts to look through.

- 6. Find out about two different jobs related to astronomy. Share this information with your den.

In the Astronomy Area at the Visitor Center you can talk with scientists that work with technology used in space.

Wolf Scouts:

Wolf Adventure: Paws on the Path

- 1. Show you are prepared to hike safely by putting together the Cub Scout Six Essentials to take along on your hike.

You can complete this hike with your essentials along the Dinosaur Ridge Trail.

- 5. Before hiking, recite the Outdoor Code and the Leave No Trace Principles for Kids with your leader. After hiking, discuss how you showed respect for wildlife.

Check out the Leave No Trace booth to learn more about respecting the outdoors before heading up the Ridge Trail to complete your hike.

- 6. Go on a 1-mile hike with your den or family. Watch and record two interesting things that you've never seen before.

The Dinosaur Ridge Hike on our Scout Day is around 1.5 miles after getting off of the bus on the West Side (Red Rocks side).

- 7. Name two birds, two insects, and two other animals that live in your area. Explain how you identified them.

The wildlife around Dinosaur Ridge can easily be seen from our hiking trail or at our Visitor Center. You can also visit the Bear Creek Lake Park and the Lookout Mountain Nature Center booths to see and learn about local wildlife.

Wolf Elective Adventure: Collections and Hobbies

- 1. Begin a collection of at least 10 items that all have something in common. Label the items and title your collection.

In the Dinosaur Ridge gift shop you can start a collection of fossils or minerals (or both). You can also discover minerals, gemstones, and fossils at our sluice mining station and our gold panning booth. You cannot collect rocks or fossils along Dinosaur Ridge.

- 3. Visit a show or museum that displays different collections or models.

The Trek Through Time indoor exhibits will be open during the event, and scouts can go inside and look at the displays. There will also be other booths with collections of meteorites, fossils, minerals, rocks, and even animals and animal parts at the event.

Wolf Elective Adventure: Digging in the Past

- 1. Play a game that demonstrates your knowledge of dinosaurs, such as a dinosaur match game.

Play the [Dinosaur Quiz Game](#) at the event to test your knowledge.

- 2. Create an imaginary dinosaur. Share with your den its name, what it eats, and where it lives.

Play the [Dinosaur Name Game](#) at our event to learn about dinosaur names and create your own dinosaur.

- 3. Make a fossil cast.

While the time to make a cast takes too long at the event, learn about molding and casting of fossils and then paint a dinosaur track cast and take it home with you!

- 6. Be a paleontologist, and dig through the dinosaur digs made by your den. Show and explain the ways a paleontologist works carefully during a dig.

The [Backyard Bones Dinosaur Dig](#) area has a skeleton of a duck-billed dinosaur to uncover from the sand. Use the map available and the tools to uncover the dinosaur's bones and figure out what happened to the dinosaur, how it died, and why it was at Dinosaur Ridge. (Bones are replicas).

Wolf Elective Adventure: Spirit of the Water

- 1. Demonstrate how the water in your community can become polluted.

Visit the [Colorado Groundwater Association's](#) booth to learn about how groundwater can be contaminated.

Bear Scouts:

Bear Adventure: Fur, Feathers, and Ferns

- 1. While hiking or walking for one mile, identify six signs that any mammals, birds, insects, reptiles, or plants are living nearby the place where you choose to hike.

The [Dinosaur Ridge hike](#) is 1.5 miles one way, and 3 miles round trip. There are many places along the trail to study local wildlife and where they live, and it's guaranteed 1-mile even if you take the bus up to walk back.

- 2. Name one animal that has become extinct in the last 100 years and one animal that is currently endangered. Explain what caused their declines.

Chat with the folks at the [Bear Creek Lake Park](#) and [Lookout Mountain Nature Center](#) booths to learn about local extinct and endangered wildlife.

- 4. Observe wildlife from a distance. Describe what you saw.

While we can't guarantee that you will see a lot of wildlife along the hike, you will see some and can observe them in a natural environment.

- 5. Use a magnifying glass to examine plants more closely. Describe what you saw through the magnifying glass that you could not see without it.

At the [Visitor Center](#) and along the [Ridge Trail](#) you can get up close with many kinds of trees, shrubs, and grasses.

Bear Elective Adventure: A Bear Goes Fishing

- 1. Discover and learn about three types of fishes in your area. Draw a color picture of each fish, record what each one likes to eat, and describe what sort of habitat each likes.

Visit the [Bear Creek Lake Park](#) booth to learn about local fish, their food, and their habitats.

- 2. Learn about your local fishing regulations with your leader or a parent or guardian.

Visit the [Bear Creek Lake Park](#) booth to learn about local fishing regulations.

Bear Elective Adventure: Forensics

- 1. Talk with your family and den about forensics and how it is used to help solve crimes.

Paleo forensics can be used to determine how animals died and what was going on around them. The Backyard Bones Dinosaur Dig is a crime scene investigation back 68 million years. Figure out with your den/family how the dinosaur died, why it was here, and what happened to it while it was alive.

Webelo Scouts

Webelos Adventure: Webelos Walkabout

- 3. Describe and identify from photos any poisonous plants and dangerous animals you might encounter on your hike.

Visit the Lookout Mountain Nature Center and Bear Creek Lake Park booths to learn about local plants and animals that may pose a risk during your hike.

- 4. Before your hike, plan and prepare a nutritious lunch. Enjoy it on your hike, and clean up afterward.

You're welcome to eat a sack lunch on your hike of Dinosaur Ridge. Visit the Leave No Trace booth before your hike to learn about proper ways to store your food and trash.

- 5. Recite the Outdoor Code and the Leave No Trace Principles for Kids from memory. Talk about how you can demonstrate them on your Webelos adventures.

Visit the Leave No Trace booth before your hike to learn about outdoor etiquette and ethics.

- 6. With your Webelos den or with a family member, hike 3 miles (in the country, if possible).

The Dinosaur Ridge Trail is 3 miles round trip if you do not take the shuttle bus ride up and hike back. The full hike starts from the Visitor Center. It's 1.5 miles to the Bone Site and then another 1.5 back to the Visitor Center.

- *7. Complete a service project on or near the hike location.

*While this cannot be complete on the day of the event, you can schedule a time for your Webelos den to come out and do trail maintenance along Dinosaur Ridge any time of the year to complete this requirement.

- 8. Perform one of the following leadership roles during your hike: trail leader, first-aid leader, lunch leader, or service project leader.

You can complete this requirement on your 3-mile hike with your den/family.

Arrow of Light Adventure: Building a Better World

- 6. Learn about energy use in your community and in other parts of our world.
- 7. Identify one energy problem in your community, and find out what has caused it.
- 8. With the assistance of your den leader or parent, participate in an event that would help lead others in recycling and conserving resources.

For all of these requirements, visit the N.R.E.L. booth (National Renewable Energy Lab). Learn about energy uses, problems, and conservation, while also learning about ways to recycle and reuse energy or create renewable energy.

Arrow of Light Adventure: Camper

- 6. Go on a geocaching adventure with your den or family. Show how you used a GPS unit or a smartphone with a GPS application to locate a geocache.

Visit the Geocaching Colorado booth to learn more about Geocaching and to rent a GPS device if you do not have access to one. Several geocaches are around the Visitor Center and along the Ridge Trail for you to find!

- 7. Recite the Outdoor Code and the Leave No Trace Principles for Kids from memory. Talk about how you can demonstrate them while you are working on your Arrow of Light. After one outing, list the things you did to follow the Outdoor Code and Leave No Trace.

Visit the Leave No Trace booth before going on your hike to learn more about Leave No Trace principles and outdoor ethics.

Webelos/AOL Elective Adventure: Adventures in Science

- 2. Visit a museum, a college, a laboratory, an observatory, a zoo, an aquarium, or other facility that employs scientists. Prepare three questions ahead of time, and talk to a scientist about his or her work.

Here at Boy Scout Day at Dinosaur Ridge, several museum organizations (including us) will have booths around the Visitor Center and along the Ridge Trail that employ scientists of many different walks. Chat with geologists from USGS, paleontologists with WIPS and Dinosaur Ridge, and many more!

Webelos/AOL Elective Adventure: Art Explosion

- 1. Visit an art museum, gallery, or exhibit. Discuss with an adult the art you saw. What did you like?

At the Visitor Center, the indoor exhibit Trek Through Time has large murals painted by world renowned paleo-artist Michael Skrepnik depicting ancient environments including animals and plants found from the fossils. Check out the artwork and learn more about paleo art from a local paleo artist at our Art Booth in the exhibit area.

Webelos/AOL Elective Adventure: Earth Rocks!

- 1. Do the following
 - a. Explain the meaning of the word “geology.”
 - b. Explain why this kind of science is an important part of your world.
 - c. Share with your family or with your den what you learned about the meaning of geology.

At the Visitor Center or along the Ridge Trail visit the many booths surrounding rocks, minerals, and Earth formations, earthquakes, volcanoes, and more.

- 2. Look for different kinds of rocks or minerals while on a rock hunt with your family or your den.

Along the Ridge Trail you can identify different types of rocks (without taking them home with you). At our rock and mineral ID stations you can check out different types of earth materials as well.

- 3. Do the following:
 - a. Identify the rocks you see on your rock hunt. Use the information in your handbook to determine which types of rocks you have collected.
 - b. With a magnifying glass, take a closer look at your collection. Determine any differences between your specimens.
 - Share what you see with your family or den.

Please be mindful that collection of rocks and minerals on Dinosaur Ridge is not allowed (also illegal). But minerals and fossils can be collected/purchased at the Visitor Center through the gift shop, sluice mining, gold panning (free), and at booths with free specimens available. There will also be rock/mineral ID stations so if you have a mineral/rock/fossil that you’ve found on a hike outside of Dinosaur Ridge, you can bring it for our scientists to help you identify.

- 4. Do the following:

- a. With your family or den, make a mineral test kit, and test minerals according to the Mohs scale of mineral hardness.
- b. Record the results in your handbook.

At our Visitor Center mineral ID stations, learn what a mineral test kit, how to make your own, and try one out on minerals at the table.

- 5. With your family or den, identify on a road map of your state some geological features in your area.

Check out the mapping booth on the Ridge Trail to identify geological features around Morrison/Golden.

- 6. Do the following:
 - a. Identify some of the geological building materials used in building your home.
 - b. Identify some of the geological materials used around your community.
 - c. Record the items you find.

At the Visitor Center, check out our mining booths to learn about minerals in the home and in your community and how they're used.

- 7. Do either 7a or 7b:
 - a. Go on an outing with your family or den to one of the nearby locations you discovered on your state map, and record what you see as you look at the geographical surroundings. Share with your family or den while on this outing what you notice that might change this location in the future (wind, water, ice, drought, erosion).

After stopping at the mapping table on the Ridge Trail, check out some of the features shown to you on the maps.

- b. Do the following:
 - i. With your family or your den, visit with a geologist or earth scientist and discover the many career fields that are included in the science of geology.
 - ii. Ask the geologist or earth scientist about the importance of fossils that are found.
 - iii. Ask the geologist or earth scientist what you can do to help preserve our natural resources.

Geologists, paleontologists, and other earth scientists will be available at many of the booths at both the Visitor Center and along the Ridge Trail to discuss careers, fossils, and other natural resources.

- 8. Do at least one earth science demonstration or investigation with your den or with adult supervision, and explore geology in action.

Several booths at the Visitor Center area have activities that are hands-on experiments and exploration of geological features. USGS will have a working earthquake machine, etc. Check them out to complete this requirement!

Webelos/AOL Elective Adventure: Into the Wild

- 3. Watch for birds in your yard, neighborhood, or town for one week. Identify the birds you see, and write down where and when you saw them.

You can see birds at the feeder and along the Ridge Trail as you hike. Stop by the Bird Conservancy of the Rockies booth at the Visitor Center to learn about local birds, including raptors!

- 4. Learn about the bird flyways closest to your home. Find out which birds use these flyways.

Visit the Bird Conservancy of the Rockies booth to learn about flyways and migration areas for local birds (especially raptors).

- 6. Identify an insect, reptile, bird, or other wild animal that is found only in your area of the country. Tell why it survives in your area.

Visit any of our wildlife and nature center booths in the Visitor Center Area to learn about local wildlife.

- 7. Give examples of at least two of the following:
 - A producer, a consumer, and a decomposer in the food chain of an ecosystem.
 - One way humans have changed the balance of nature.
 - How you can help protect the balance of nature.

Visit any of our [wildlife and nature center booths](#) in the [Visitor Center area](#) to learn about ecosystems.

- 8. Learn about aquatic ecosystems and wetlands in your area. Talk with your Webelos den leader or family about the important role aquatic ecosystems and wetlands play in supporting life cycles of wildlife and humans, and list three ways you can help.

Visit the [Bear Creek Lake Park booth](#) to learn about local aquatic and wetlands ecosystems.

Webelos/AOL Elective Adventure: Into the Woods

- 1. Identify two different groups of trees and the parts of a tree.

Visit the [National Park Service booth](#) at the [Visitor Center area](#) to learn about forests and trees.

- 2. Identify six trees common to the area where you live. Tell whether they are native to your area. Tell how both wildlife and humans use them.

Visit the [National Park Service booth](#) before exploring the [Visitor Center and Ridge Trail](#) to look at the different types of trees you can find locally. You can also visit many of the [wildlife and nature center booths](#) to learn about what animals would use the trees you identified.

- 3. Identify six plants common to the area where you live. Tell which animals use them and for what purpose.

Visit the many [nature center, wildlife, and park service booths](#) to learn about plants and how they're utilized by wildlife.

- 4. Visit a nature center, nursery, tree farm, or park, and speak with someone knowledgeable about trees and plants that are native to your area. Explain how plants and trees are important to our ecosystem and how they improve our environment.

Visit the [National Park Service](#) or the [nature center booths](#) to talk with [Park Rangers](#) about local trees and plants.

- 7. Explain how the growth rings of a tree trunk tell its life story. Describe different types of tree bark and explain what the bark does for the tree.

Visit the [National Park Service booth](#) to learn about tree rings and parts of trees.