



Nature-Watch

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Webelos Badges

Scientist

Do These:

1. Read Bernoulli's Principle. Show how it works.
2. Read Pascal's Law. Tell about some inventions that use Pascal's law.
3. Read Newton's first law of motion. Show in three different ways how inertia works.
4. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Science.

And Do Six of These:

5. Show the effects of atmospheric pressure.
6. Show the effects of air pressure.
7. Show the effects of water pressure. This may be combined with atmospheric pressure or with air pressure.
8. With adult supervision, build and launch a model rocket. (NOTE: You must be at least 10 years old to work with a model rocket kit sold in stores.) Describe how Newton's third law of motion explains how the rocket is propelled into the sky.
9. Explain what causes fog. Show how this works.
10. Explain how crystals are formed. Make some.
11. Explain how you use your center of gravity to keep your balance. Show three different balancing tricks.
12. Show in three different ways how your eyes work together, and show what is meant by an optical illusion.
13. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Weather.

Recommended Products:

[Weather Window Activity Kit \(#150\)](#)

14. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Astronomy.

Recommended Products:

[Starry, Starry Day Activity Kit \(#155\)](#)

[Star Seekers Activity Kit \(#107\)](#)

Forester

Do Five of These:

1. Make a map of the United States. Show the types of forests growing in different parts of the country. Name some kinds of trees that grow in these forests.

Recommended Products:

[National Audobon Society Field Guide: Trees of the Eastern Region \(#632w\)](#)

[National Audobon Society Field Guide: Trees of the Western Region \(#632x\)](#)



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[Tree Flash Guide \(#613n\)](#)

2. Draw a picture to show the plant and tree layers of a forest in your area. Label the different layers. (If you don't live in an area that has forests, choose an area that does and draw a picture of that forest.)
3. Identify six forest trees common to the area where you live. Tell how both wildlife and humans use them. (If you don't live in a region that has forests, read about one type of forest and name six of its trees and their uses.)
4. Identify six forest plants (other than trees) that are useful to wildlife. Tell which animals use them and for what purposes.
5. Draw a picture showing:
 - a. how water and minerals in the soil help a tree grow
 - b. how the tree uses sunlight to help it grow

Recommended Products:

[Pressed Leaf Coaster Activity Kit \(#139\)](#)

6. Make a poster showing a tree's growth rings or examine the growth rings of a tree stump. Explain how the rings tell its life history

Recommended Products:

[Tree Discs \(#201\)](#)

[Tree-Mendous Activity Kit \(#101\)](#)

7. Collect pieces of three kinds of wood used for building houses. Tell what kinds of wood they are and one place each of them might be used
8. Plant 20 forest tree seedlings. Tell how you planted them and what you did to take care of them after planting.

Recommended Products:

[Forests Forever Activity Kit \(#144\)](#)

9. Describe both the benefits and the harm wildfires can cause in a forest ecosystem. Tell how you can prevent wildfire.
10. Draw your own urban forestry plan for adding trees to a street, yard, or park near your home. Show what types of trees you would like to see planted.

Geologist

Do Five of These

1. Collect five geologic specimens that have important uses.



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Recommended Products:

[Rocks and Minerals \(#250\)](#)

2. Rocks and minerals are used in metals, glass, jewelry, road-building products, and fertilizer. Give examples of minerals used in these products.
3. Make a scale of mineral hardness for objects found at home. Show how to use the scale by finding the relative hardness of three samples.

Recommended Products:

[Mineral Hardness Scale Kit \(#250g\)](#)

4. List some of the geologic materials used in building your home.
5. Make a drawing that shows the cause of a volcano, a geyser, or an earthquake.
6. Explain one way in which mountains are formed.
7. Describe what a fossil is. How is it used to tell how old a formation is? Find two examples of fossils in your area.

Recommended Products:

[Fossil Rubbing Plates \(#422e\)](#)

[Fossil Collection \(#269a\)](#)

[Prehistoric Amber Activity Kit \(#137\)](#)

8. Take a field trip to a geological site, geological laboratory, or rock show. Discuss what you learned at your next Webelos den meeting.
9. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Geology.

Naturalist

Do These

1. With your parent, guardian, or Webelos den leader, complete the Respect Character Connection.
 - a. Know: Tell what interested you most when completing the requirements for this activity badge. Tell what you learned about how you can show appreciation and respect for wildlife.
 - b. Commit: Tell things that some people have done that show a lack of respect for wildlife. Name ways that you will show respect for and protect wildlife.
 - c. Practice: Explain how completing the requirements for this activity badge gives you the opportunity to show respect.

And Do Five of These

2. Keep an insect zoo that you have collected. You might have crickets, ants, or grasshoppers. Study them for a while then release them. Share your experience with your Webelos den.

Recommended Products:

[Antworks Illuminated \(#405n\)](#)

[2-Way Bug Viewer \(#502f\)](#)



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[Bug Jar \(#502d\)](#)
[Bug Viewer \(#502c\)](#)
[Bug Box \(#502e\)](#)
[Insect Net \(#503g\)](#)

3. Set up an aquarium or terrarium. Keep it for at least a month. Share your experience with your Webelos den by showing them photos or drawings of your project, or having them visit to see your project.

Recommended Products:

[Hands-On Discovery Lab \(#502h\)](#)

4. Visit a museum of natural history, nature center, or zoo with your family, Webelos den, or pack. Tell what you saw.

5. 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.

Recommended Products:

[Binoculars \(#510f\)](#)
[Bird Wheel Activity Kit \(#122\)](#)
[Birdsong Identiflyer \(#424a\)](#)
[Backyard Birds of North America Poster \(#823h\)](#)
[Fandex Field Guide: Birds \(#630c\)](#)

6. Learn about the bird flyways closest to your home. Find out which birds use these flyways.
7. Learn to identify poisonous plants and venomous reptiles found in your area.

Recommended Products:

[Poison Ivy Display \(#506s\)](#)
[North American Snakes Poster \(#824b\)](#)
[Rattlesnake Skin \(#807x\)](#)
[Venomous Snake Skeleton Display \(#805f\)](#)

8. Watch six wild animals (snakes, turtles, fish, birds, or mammals) in the wild. Describe the kind of place (forest, field, marsh, yard, or park) where you saw them. Tell what they were doing.
9. Give examples of:
 - a. A producer, a consumer, and a decomposer in the food chain of an ecosystem

Recommended Products:

[Food Chain Activity Kit \(#146\)](#)



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- b. One way humans have changed the balance of nature
- c. How you can help protect the balance of nature
10. Identify a plant, bird, or wild animal that is found only in your area of the country. Tell why it survives only in your area.
11. Learn about aquatic ecosystems and wetlands in your area. Discuss with your Webelos den leader or activity badge counselor the important role aquatic ecosystems and wetlands play in supporting lifecycles of wildlife and humans.
12. Look around your neighborhood and identify how litter might be dangerous to the birds and other animals. Clean up the litter. Identify what else you might do to make your neighborhood safer for animals.
13. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Wildlife Conservation.

Outdoorsman

Do Two of these:

1. Present yourself to your Webelos den leader, properly dressed, as you would be for an overnight campout. Show the camping gear you will use. Show the right way to pack and carry it.

Recommended Products:

[Binoculars \(#510f\)](#)

[Compass With Lid \(#512a\)](#)

[Traveling Compass \(#512b\)](#)

2. With your family or Webelos den, help plan and take part in an evening outdoor activity that includes a campfire.

Recommended Products:

[Incredible Insects Activity Kit \(#148\)](#)

[Star Seekers Activity Kit \(#107\)](#)

[Stories for the Campfire \(#610f\)](#)

3. With your parent or guardian, take part in a Webelos den overnight campout or a family campout. Sleep in a tent that you have helped pitch.
4. With your parent or guardian, camp overnight with a Boy Scout troop. Sleep in a tent that you have helped pitch.

And Do Five of these:

5. During a Webelos den meeting, discuss how to follow the Leave No Trace Frontcountry Guidelines during outdoor activities.
6. Participate in an outdoor conservation project with your Webelos den or a Boy Scout troop.

Recommended Products:

[Eco-Bag Activity Kit \(#156\)](#)



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[Eco-Solutions Activity Kit \(#109\)](#)

7. Discuss with your Webelos den leader the rules of outdoor fire safety. Using these rules, show how to build a safe fire and put it out.
8. With your accompanying adult on a campout or outdoor activity, assist in preparing, cooking, and cleanup for one of your den's meals. Tell why it is important for each den member to share in meal preparation and cleanup, and explain the importance of eating together.
9. Discuss with your Webelos den leader the things that you need to take on a hike. Go on one 3-mile hike with your Webelos den or a Boy Scout troop.

Recommended Products:

[Binoculars \(#510f\)](#)

[Compass With Lid \(#512a\)](#)

[Traveling Compass \(#512b\)](#)

10. Demonstrate how to whip and fuse the ends of a rope.
11. Demonstrate setting up a tent or dining fly using two half hitches and a taut-line hitch. Show how to tie a square knot and explain how it is used.
12. Visit a nearby Boy Scout camp with your Webelos den.