

Cubs & Scouts
Are you ready for the
challenge?



Our Partners / Sponsors In Climate Change





Calling all Cubs and Scouts!

Are you ready for the challenge?

The Climate Change Challenge is here! That's right, we challenge you and your family to look at how much energy you consume and the impact you have where you live! In fact, we want to reduce the amount of greenhouse gasses you produce by One Tonne!

How can you do this? It's easier than you think! The badges in this booklet give you lots of ideas. And don't worry – you don't have to do it alone! You will need some help from your parents, family and friends to save energy, recycle and do other activities to help make a difference. And we have a cool crest to say 'Awesome Job' that you can get when you're finished.

So let's go! Earn some badges, do an energy audit, complete the challenge – and you're done!

If you would like a full page version of these badges you can simply print and cut out the pages from our web site and glue them directly into your handbook. Visit our web site at www.scouts.ca, click on your section page, then click on the Climate Change link.

So check out your section in this booklet and be a part of protecting our world for years to come.

Scouts Canada

P.S. For Beavers, Venturers and Rovers – you can find out details about the Climate Change Challenge on your section page at www.scouts.ca.



Cubs Climate Change Challenge Crest

To earn the Climate Change Challenge Crest, complete three of these five badges and do the energy sleuth game and online calculator.
(you can find the game at www.scouts.ca).

Recycling Badge for Cubs



Recycling

Cubs

Check Off When Completed.
Do any three in each of the categories.

A. Reduce

- ❑ 1. Look in your home or in a store for products that could be sold with less packaging.
- ❑ 2. With the help of an adult, check the tire pressure in a car to see if the tires are properly inflated to improve gas consumption.
- ❑ 3. Bring your own non-disposable mug and eating utensils to use at camp or bring a garbage-free lunch to school regularly.
- ❑ 4. Make a list or draw how you and your family could reduce the amount of electricity used at home. For one week keep track of how you saved energy. Record what you did and how many times you did it.
- ❑ 5. Keep a record of four different ways that you saved water at your house in a week.
- ❑ 6. Describe what you and your family did to reduce the amount of heat needed to keep your house warm.
- ❑ 7. Choose two items that you or your family bought this week that you could have done without. Commit to not buying those items for the next month.

B. Reuse

- ❑ 1. Choose something that you currently throw away and come up with a new idea on how to reuse it safely.
- ❑ 2. Explain and show new uses for old plastic containers.
- ❑ 3. Explain and show new uses for old jars and cans.
- ❑ 4. Make a project from old lumber or Christmas trees.
- ❑ 5. Describe and show new uses for different kinds of paper, greeting cards, bags and cardboard boxes.
- ❑ 6. Repair and donate old toys to somebody.
- ❑ 7. With help from an adult, collect old clothes, furniture or books and donate them.
- ❑ 8. Make a list of all the things that you didn't need to buy during one week because you reused items you already had. Explain how reusing items reduces the amount of energy needed to make new things.



Recycling Cubs

Recycling Badge for Cubs (*continued*)

C. Recycle

- ❑ 1. Build a composter and either use it yourself or give it to a friend.
- ❑ 2. Help publicize a home toxic waste collection day in your community, such as for collecting old paints, garden chemicals, oil, etc.
- ❑ 3. Show or tell your pack about three products that are made with recycled materials. Explain how using recycled materials helps to reduce climate change.
- ❑ 4. Participate in a recycling project such as a bottle or paper drive.
- ❑ 5. Visit or learn about a company or industry that is involved in recycling or collecting recyclable materials.
- ❑ 6. Make a list of products that display the recycling symbol.
- ❑ 7. Using old paper products, make your own recycled paper.
- ❑ 8. Help organize or participate in a recycling program.
- ❑ 9. Learn which items in your house can be returned when you are done with them (examples include computer parts, batteries, tires etc.). Identify one item (from this list) you were planning to throw out and with an adult, bring it somewhere to be recycled.



Home
Repair

Cubs

Home Repair Badge

Check Off When Completed.

With the help of an adult, do any seven of the following:

- ❑ 1. Show how to turn on and off the electric power supply and the water supply in your home. Explain how to turn off the gas supply if your home uses gas.
- ❑ 2. Replace a light bulb in a socket. With an adult, check in your house which light bulbs could be replaced by an energy efficient fluorescent bulb.
- ❑ 3. Replace a tap washer.
- ❑ 4. Lubricate a door hinge and/or lock.
- ❑ 5. Finish a wood surface and stain.
- ❑ 6. Properly prepare and paint a piece of wood or metal.
- ❑ 7. Help keep work areas, such as garage or basement, clean and tidy for one month.
- ❑ 8. Resod or reseed a worn out part of a lawn.
- ❑ 9. Tell or show how to clear a stopped up sink or toilet.
- ❑ 10. Replace a doorknob or install any kind of door or window lock.

Cyclist Badge for Cubs



Check Off When Completed.

- ❑ 1. Own or have access to, and use an approved bicycling helmet while earning this badge. Explain how to tell if a helmet is approved for bicycling.
- ❑ 2. Have the use of a bicycle that is the right size for you and conduct the following safety check:
 - a) Check lights, reflectors, pedals, seat, horn or bell for good working condition
 - b) Check handle grips for tightness
 - c) Check steering assembly for tightness
 - d) Check tires for air pressure and cuts
 - e) Check all nuts and bolts for tightness
 - f) Check chain for tightness and properly oil the chain
 - g) Check wheels for wobbles and broken spokes
 - h) Show how to keep the bike clean.
- ❑ 3. Explain the meaning of the following street signs or signals and how to properly respond.
 - a) Stop sign
 - b) Yield sign
 - c) Pedestrian crosswalk sign
 - d) Colours of a traffic light
 - e) Railway crossing sign
 - f) One way sign.
- ❑ 4. In a safe, off-road area, demonstrate the following skills:
 - a) Start, stop and pedal smoothly
 - b) Ride in a straight line
 - c) Do a shoulder check: while riding in a straight line, look back over your shoulder for a few seconds. Be able to ride in a straight line while looking back and tell your leader what you saw.
 - d) Hand signals for left turn, right turn and stop.
- ❑ 5. Explain why you should stop and check for traffic before riding out of your driveway and know what side of the road to ride on.
- ❑ 6. Explain how to make yourself more visible at night by wearing bright and reflective clothing, use of bike reflectors and lights.
- ❑ 7. Explain other bicycling safety tips such as riding in wet weather, avoiding road hazards such as holes and grates, avoiding car doors, and how to lock your bike.
- ❑ 8. To be done after the other items have been completed. With the help of an adult choose a safe route to bike in your neighbourhood. Bike for 10 minutes on this safe route with an adult. Explain how riding your bike (as opposed to using a car) for 10 minutes is good for the environment.



Family Helper Badge for Cubs

Check Off When Completed.

With the help of an adult, do any seven of the following:

- ❑ 1. Show how to use the kitchen stove or microwave oven safely, and then make tea, coffee, cocoa, soup or cook an egg. Show how much quicker a pot with a lid on will boil than a pot without a lid. Explain how this helps you to cook with less energy. Explain how using a microwave to heat up food instead of the stove will help reduce energy use and climate change.
- ❑ 2. Set a table for a two course meal for your family.
- ❑ 3. Know how to load a dishwasher and when it is full, how to turn it on. Or show the proper way to wash dishes by hand. Explain how only running a dishwasher when it is full will help reduce how much water and energy are used.
- ❑ 4. Clean windows and mop a floor.
- ❑ 5. Make a bed and clean and tidy a room.
- ❑ 6. Vacuum a rug.
- ❑ 7. Show the correct way to answer callers at the door and on the telephone, and show how to pass on a message.
- ❑ 8. Wash a load of laundry, hang the items to dry, and iron your neckerchief. Explain how hanging clothes to dry will help reduce the amount of energy you use.
- ❑ 9. Show how to recycle, compost and dispose of household garbage. See if you can reduce the amount of garbage you are throwing out each week by putting this into action.
- ❑ 10. Sew on a badge and a button.
- ❑ 11. Discuss how to properly dispose of household toxic waste such as paint, oil, paint thinner, old medicine, cleaners and batteries.
- ❑ 12. Wash an automobile.
- ❑ 13. Keep an entrance to a home clear of snow for one month.
- ❑ 14. Water a lawn or garden for one month. Explain what time of day is best to water plants to conserve water.
- ❑ 15. Show that you can help reduce your family's energy costs by turning off lights and electrical equipment that are not being used during a one week period.

World Conservation for Cubs



Check Off When Completed.

Do any six of the following:

- 1. Go on a hike in or around two different habitats such as a field, marsh, bog, woodlands, seashore, prairie or tundra. In each habitat discover the following:
 - a) What animals live there
 - b) What kinds of plants live there
 - c) What the ground or soil is like
 - d) What the sources of water are for this area
 - e) Explain how if the temperature got hotter or colder than usual because of climate change the habitat might change.Compare the two habitats and discuss why some plants and animals live in one place and not the other.
- 2. Visit a habitat and discover what kinds of plants and animals are there that provide food for other animals. How does food encourage or limit what animals live in the area?
- 3. Visit a habitat and discover what kinds of animal and insect homes are there. Discuss the advantages and disadvantages of each kind of home you find.
- 4. Visit a habitat and look for signs of water. How does water affect where and what kinds of plants and animals live there?
- 5. Find out what it means to be an endangered species. Choose one endangered species and make a poster or a presentation to your pack on how it has been hurt by a lack of food, water, shelter, space or other causes. What can people do to help this endangered species survive? How could changes in the average temperature because of climate change make it more difficult for this species to survive?
- 6. Do a project that improves food, water, shelter or space for wildlife. Some ideas are:
 - a) build and install bird houses or feeders
 - b) clean up a stream or creek
 - c) plant trees or shrubs that have fruit for animals to eat
 - d) remove trash or stop erosion so more plants and animals can use the area.
- 7. Discuss the different kinds of soil, water and air pollution that exist. How do these forms of pollution affect your health and the environment, and what can be done to stop or limit pollution sources?
- 8. Write some rules for good behaviour while in the outdoors and share these with your six or pack.
- 9. Explain how climate change affects the natural environment and take one action, such as using a bike instead of a car, using less electricity at home, or recycling, that will reduce greenhouse gas emissions which cause climate change.



SCOUTS

Climate Change Crest eligibility requirements

- ❑ 1. Do three of the four Scout badges in this booklet.
- ❑ 2. Make your home more energy wise: Reduce waste of precious energy resources, save your parents' money, and reduce your contribution to climate change. Investigate and reduce energy consumption in your home by following the Home Energy Audit and Online Energy Calculator posted on the Scouts Canada web site (www.scouts.ca).
- ❑ 3. Take the transportation challenge: Develop a personal transportation challenge. Actively pursue a sport that can serve as a mode of transportation (e.g. biking, in-line skating, skateboarding, etc.). Show that you understand the rules, safety and precautions connected with using the sport as a mode of transportation, as well as the advantages of it, including those of health, air quality and climate change. Make and pursue a plan to travel to one destination (of approximately 5 km) by this alternative mode of transportation once a week for a two month period.
- ❑ 4. Select and complete three of the challenges from the list below:
 - i) Find out all of the items that your municipality will accept for recycling. Examine what you recycle at home or at the home of your grandparents or another relative and expand your efforts to include all of these items. Don't forget about items that can be donated (e.g. clothing, dishes, etc.), repaired (e.g. resoling shoes) and refused (e.g. flyers, excess packaging, etc.). Find a way to help your family, relative or grandparent to recycle, reduce, reuse and refuse all these possible items.
 - ii) Report back to your patrol/troop leader on what you accomplished. This challenge can also help you to earn the Recycling badge.
 - iii) With permission and help from your parents, do at least two home repairs that will help to reduce the heat or air conditioning escaping from your home. Hint: doing the Home Energy Audit will give you some ideas on what kinds of repairs you can do to complete this challenge. This challenge also can help you to earn the Home Repair badge.
 - iv) With your troop, do a program to educate people in your community about climate change. Develop your own program idea, or select one of these:
Adopt a location in the community where cars are often seen idling (at a community mall, at school, outside individual stores, etc.). Idling wastes gas and puts pollutants and greenhouse gases into the atmos-



phere. Launch a no-idling campaign to decrease or eliminate idling in this location. Take advantage of resources offered through Natural Resources Canada's Office of Energy Efficiency to assist you to develop and deliver the program (<http://oee.nrcan.gc.ca/idling/home.cfm>). Organize a tire pressure clinic to help cars to run optimally. Visit <http://www.betiresmart.ca/> to find out more about this program and how you can organize a tire clinic in your community.

Hold a community car wash to discourage people from using automated car washes. This will reduce the use of energy to run the automated car wash.

Create and distribute flyers to help your community benefit from what you have learned about climate change. You can encourage them to recycle more items, to find and fix energy leaks in their own home, or to buy locally grown foods. Your project also can help you to earn the Troop Specialty Badge.

- v) Complete a project that includes some recognizable work in your community or troop. For example, learn about the range of weather conditions that climate change may bring to your region and make a presentation giving advice on what precautions you would take for a camping-canoeing trip planned during any one season (spring, summer or winter) or what precautions your community or city should take to prepare for the future. Make a presentation, display or report describing your project, and the global importance of the issue. You may complete the project as an individual or in a group. This challenge can also help you earn the World Conservation Badge.
- vi) Show that you know how to make decisions that reduce the energy you use in running your family home including turning off unnecessary lights and appliances, reducing use of the clothes dryer by hanging laundry to dry, identifying and selecting local products to plan a meal, buying products with less packaging, etc. Track what you did and how often over a period of a month.
- vii) Participate in a Scoutrees project as an individual or with your troop and demonstrate your understanding of the link between trees and climate change. You could serve as a leader for a Beaver or Cub Scoutrees project and teach them how Scoutrees work to reduce greenhouse gases.



Specialty Scouts

Specialty Badges for Scouts

- ❑ 1. After exploring ways to improve the energy efficiency of your home, educate others as to how they may improve their own homes (e.g. information booth; pamphlet, etc.). Provide estimates of the energy, money and GHGs saved by using an online calculator (www.climatechange.gc.ca or www.scouts.ca).
- ❑ 2. Adopt a location in the community where cars are often seen idling (school yard, sports facility) and launch a no-idling campaign to decrease idling in this location. Resources can be found at: <http://oee.nrcan.gc.ca/idling/home.cfm>.
- ❑ 3. Organize a tire pressure clinic. Visit www.betiresmart.ca to find out more about this program.



Recycling Scouts

Recycling Badge for Scouts

Purpose: Demonstrate your knowledge and involvement in recycling.

Requirements:

- ❑ 1. Lead a discussion about the meaning of recycling, and describe why recycling has become more important in recent years.
- ❑ 2. Report on the “recycling process” in your community. What happens to a tin can or bottle?
- ❑ 3. Examine what you recycle at home to ensure you are recycling all items accepted by your municipality. Expand it to include those items that can be donated (e.g. clothing, household items, etc.) and refused (e.g. flyers, excess packaging, etc.).

World Conservation for Scouts



Purpose: To demonstrate a Scout's concern for the environment and awareness of the global need for conservation.

The World Conservation Badge combines the symbol of Scouting with that of the World Wildlife Fund: the Panda. The badge was specifically designed by Sir Peter Scott, a world famous conservationist and chairman of the World Wildlife Fund. The World Wildlife Fund, originally dedicated to saving endangered species such as the Panda, has broadened its focus. Now the Fund's concern is to save the environment, namely the spaces within which wildlife and humans must live if they are to survive.

The World Conservation Badge is an international badge, which means Scouts in other countries are also working to earn it, even though they may be working on slightly different requirements. All Scouts around the world who wear this badge publicly demonstrate Scouting's concern for the environment and awareness of the global need for conservation.

To earn the World Conservation Badge (which you wear on the back of the sash 10 cm from the top seam) you must complete the following.

Requirements:

- ❑ 1. Complete at least two Challenge Badges in the environmental category;
- ❑ 2. Choose a conservation issue of importance to Canada and the world, and complete a project that includes some recognizable work in your community. Make a presentation, display or report describing your project, and the global importance of the issue in relation to climate change. You may complete the project as an individual or in a group. Examples might include global warming, acid rain, endangered species, etc.; and
- ❑ 3. Take a leading role in planning and conducting an environment activity of your choice which focuses on the concept, 'Think Globally, Act Locally'.



Home
Repair

Scouts

Home Repair Badge for Scouts

Purpose: Demonstrate the ability to make home repairs.

Requirements:

- 1. Be able to identify trouble, and make the necessary repairs to four home projects, two of which will reduce the amount of heat escaping from your home. (e.g. different ways to stop window or door drafts).
- 2. Demonstrate the safety precautions required for each project.
- 3. Show how to safely operate and maintain any three hand tools, and any two power tools used in your home repair projects.
- 4. In all projects, demonstrate that you have finished the job in a competent manner, and have cleaned up the tools and the job site.



This crest (great for campfire blankets) can be purchased at your local Scout Shop or through mail order.

Good luck with the Climate Change Challenge!