

2020 Camp Lavigne Merit Badge Prerequisites

The following requirements must be completed prior to arrival at camp, if the Scout is to complete the merit badge at the end of his long term camping experience this summer. A Scout should decide with his Scoutmaster's counseling and approval what merit badges he will work on at summer camp at least six weeks prior to his arrival. Numbers and letters refer to the requirements listed in the Merit Badge's worksheet/pamphlet.

If a Merit Badge is not listed below, the requirements can be completed at camp, unless otherwise specified while there. Be sure use the most recent Merit Badge Pamphlet.

A Scout MUST bring proof of the completion of his prerequisites to camp.

American Cultures

No Prerequisites.

Archery

No Prerequisites.

Astronomy

5. Do the following:

- a. List the names of the five most visible planets. Explain which ones can appear in phases similar to lunar phases and which ones cannot, and explain why.
- b. Using the Internet (with your parent's permission), books, and other resources, find out when each of the five most visible planets that you identified in requirement 5a will be observable in the evening sky during the next 12 months, then compile this information in the form of a chart or table.

Basketry

No Prerequisites.

Canoeing

Must be a BSA Swimmer.

Camping

3. Make a written plan* for an overnight trek and show how to get to your camping spot by using a topographical map and one of the following:
 - (a) A compass
 - (b) A GPS receiver**
 - (c) A smartphone with a GPS app*
4. Do the following:
 - (a) Make a duty roster showing how your patrol is organized for an actual overnight campout. List assignments for each member.
 - (b) Help a Scout patrol or a Webelos Scout unit in your area prepare for an actual campout, including creating the duty roster, menu planning, equipment needs, general planning, and setting up camp.
7. Prepare for an overnight campout with your patrol by doing the following: (a) Make a checklist of personal and patrol gear that will be needed.
 - (b) Pack your own gear and your share of the patrol equipment and food for proper carrying. Show that your pack is right for quickly getting what is needed first, and that it has been assembled properly for comfort, weight, balance, size, and neatness.
9. Show experience in camping by doing the following:
 - (a) Camp a total of at least 20 nights at designated Scouting activities or events. One long-term camping experience of up to six consecutive nights may be applied toward this requirement. Sleep each night under the sky or in a tent you have pitched. If the camp provides a tent that has already been pitched, you need not pitch your own tent.
 - (b) On any of these camping experiences, you must do TWO of the following, only with proper preparation and under qualified supervision.
 - (1) Hike up a mountain, gaining at least 1,000 vertical feet.
 - (2) Backpack, snowshoe, or cross-country ski for at least 4 miles.
 - (3) Take a bike trip of at least 15 miles or at least four hours.
 - (4) Take a non-motorized trip on the water of at least four hours or 5 miles.
 - (5) Plan and carry out an overnight snow camping experience.
 - (6) Rappel down a rappel route of 30 feet or more.
 - (c) Perform a conservation project approved by the landowner or land managing agency. This can be done alone or with others.

*Scoutmaster must sign off on the completion of all outings for this merit badge.

Chemistry

- *Purchase the Chemistry Merit Badge book and read each section.*
- *Download the chemistry merit badge worksheet from the website: http://meritbadge.org/wiki/index.php/Main_Page and bring it with you to camp.*

1. Do EACH of the following:

(c) Obtain an SDS for both a paint and an insecticide. Compare and discuss the toxicity, disposal, and safe-handling sections for these two common household products.

- *You can obtain a SDS for a common household chemical by using Google. Google search "SDS for Chemical Name." This will take you to the manufactures website and a SDS will be available there for free.*
- *Lab Lab Visit dates Wednesday June 17 from 6:00 - 8:00 pm and Saturday June 20 from 10:00 am - 12:00 pm.*

Citizenship in the Community

3. Do the following:

- a. Attend a meeting of your city, town, or county council or school board; OR attend a municipal, county, or state court session
- b. Choose one of the issues discussed at the meeting where a difference of opinions was expressed, and explain to your counselor why you agree with one opinion more than you do another one.

Citizenship in the World

7. Do TWO of the following (with your parent's permission) and share with your counselor what you have learned:

- a. Visit the website of the U.S. State Department. Learn more about an issue you find interesting that is discussed on this website.
- b. Visit the website of an international news organization or foreign government, OR examine a foreign newspaper available at your local library, bookstore, or newsstand. Find a news story about a human right realized in the United States that is not recognized in another country.
- c. Visit with a student or Scout from another country and discuss the typical values, holidays, ethnic foods, and traditions practiced or enjoyed there.
- d. Attend a world Scout jamboree.
- e. Participate in or attend an international event in your area, such as an ethnic festival, concert, or play

Climbing

No Prerequisites.

Collections

*Bring picture(s) of your collection to camp. **DO NOT** bring your collection to camp.*

Communication

4. Interview someone you know fairly well, like, or respect because of his or her position, talent, career, or life experiences. Listen actively to learn as much as you can about the person. Then prepare and deliver to your counselor an introduction of the person as though this person were to be a guest speaker, and include reasons why the audience would want to hear this person speak. Show how you would call to invite this person to speak.
5. Attend a public meeting (city council, school board, debate) approved by your counselor where several points of view are given on a single issue. Practice active listening skills and take careful notes of each point of view. Prepare an objective report that includes all points of view that were expressed, and share this with your counselor.
7. Do ONE of the following:
 - (a) Write to the editor of a magazine or your local newspaper to express your opinion or share information on any subject you choose. Send your message by fax, email, or regular mail.
 - (b) Create a webpage or blog of special interest to you (for instance, your troop or crew, a hobby, or a sport). Include at least three articles or entries and one photograph or illustration, and one link to some other webpage or blog that would be helpful to someone who visits the webpage or blog you have created. It is not necessary to post your webpage or blog to the internet, but if you decide to do so, you must first share it with your parents and counselor and get their permission.
 - (c) Use desktop publishing to produce a newsletter, brochure, flier, or other printed material for your troop or crew, class at school, or other group. Include at least one article and one photograph or illustration.
8. Plan a troop or crew court of honor, campfire program, or interfaith worship service. Have the patrol leaders' council approve it, then write the script and prepare the program. Serve as master of ceremonies.

Cooking

2. Nutrition. Do the following:

- a. Using the MyPlate food guide or the current USDA nutrition model, give five examples for EACH of the following food groups, the recommended number of daily servings, and the recommended serving size:
(1) Fruits (2) Vegetables (3) Grains (4) Proteins (5) Dairy
- c. Determine your daily level of activity and your caloric need based on your activity level. Then, based on the MyPlate food guide, discuss with your counselor an appropriate meal plan for yourself for one day.
- d. Discuss your current eating habits with your counselor and what you can do to eat healthier, based on the MyPlate food guide.

4. Cooking at home. Using the MyPlate food guide or the current USDA nutrition model, plan menus for three full days of meals (three breakfasts, three lunches, and three dinners) plus one dessert. Your menus should include enough to feed yourself and at least one adult, keeping in mind any special needs (such as food allergies) and how you kept your foods safe and free from cross-contamination. List the equipment and utensils needed to prepare and serve these meals. Then do the following:

- a. Create a shopping list for your meals showing the amount of food needed to prepare and serve each meal, and the cost for each meal.
 - *Bring a labeled, non-plastic flatware (Fork, knife, and spoon) (Required)*

Cyber Chip

Grades 6-8

- Write and sign a personalized contract with your parent or guardian that outlines rules for using the computer and mobile devices, including what you can download, what you can post, and consequences for inappropriate use.

Grades 9-12

- Write and sign a personalized contract with your parent or guardian that outlines rules for using the computer and mobile devices, including what you can download, what you can post, and consequences for inappropriate use.
- Discuss with your parents the benefits and potential dangers teenagers might experience when using social media. Give examples of each.

Cycling

7.*Using the BSA buddy system, complete all of the requirements for ONE of the following options: road biking OR **Mountain Biking**.

Option B: Mountain Biking

- c. On trails approved by your counselor, take two rides of 2 miles each, two rides of 5 miles each, and two rides of 8 miles each. You must make a report of the rides taken. List dates for the routes traveled, and interesting things seen.
- d. After fulfilling the previous requirement, lay out on a trail map a 22-mile trip. You may include multiple trail systems, if needed. Stay away from main highways. Using your map, make this ride in six hours.

*The bicycle used for fulfilling these requirements must have all required safety features and must be registered as required by your local traffic laws.

Energy

- 4. Conduct an energy audit of your home. Keep a 14-day log that records what you and your family did to reduce energy use. Include the following in your report and, after the 14-day period, discuss what you have learned with your counselor.
 - (a) List the types of energy used in your home such as electricity, wood, oil, liquid petroleum, and natural gas, and tell how each is delivered and measured, and the current cost; OR record the transportation fuel used, miles driven, miles per gallon, and trips using your family car or another vehicle.
 - (b) Describe ways you and your family can use energy resources more wisely. In preparing your discussion, consider the energy required for the things you do and use on a daily basis (cooking, showering, using lights, driving, watching TV, using the computer). Explain what is meant by sustainable energy sources. Explain how you can change your energy use through reuse and recycling.

Entrepreneurship

- 3. Identify and interview an individual who has started a business. Learn about this person's educational background, early work experiences, where the idea for the business came from, and what was involved in starting the business. Find out how the entrepreneur raised the capital (money) to start the business, examples of successes and challenges faced, and how the business is currently doing (if applicable). Discuss with your counselor what you have learned.

Environmental Science

1. Make a timeline of the history of environmental science in America. Identify the contribution made by the Boy Scouts to environmental science. Include dates, names of 30 people or organizations, and important events. *(Note: Information required for this timeline is found in the Environmental Science merit badge book)*

3. Do ONE activity from the following category (using the activities in this pamphlet as the basis for planning and projects):

E. Endangered Species

(1) Do research on one endangered species found in your state. Find out what its natural habitat is, why it is endangered, what is being done to preserve it, and how many individual organisms are left in the wild. Prepare a 100-word report about the organism, including a drawing. Present your report to your patrol or troop. *(You will present to the patrol you are placed in for the week at summer camp.)*

OR

(2) Do research on one species that was endangered or threatened but which has now recovered. Find out how the organism recovered, and what its new status is. Write a 100-word report on the species and discuss it with your counselor.

First-Aid

Purchase and read a copy of the current First Aid Merit Badge Book. (Available at the Council Scout Shop)

1. *Provide a written statement from your Scoutmaster certifying that you “have demonstrated ... that you have current knowledge of all first-aid requirements for Tenderfoot, Second Class, and First Class ranks.”*

Bring with you to camp your “Personal First Aid Kit” (See Tenderfoot requirement 4d.) and be prepared to explain the contents and their correct use.

5. Do the following:

(a) Prepare a first-aid kit for your home. Display and discuss its contents with your counselor.

Your “First Aid Kit for the Home” (See Page 22 in the Merit Badge Book) is important and you should try to have one there. Due to the extensive nature of the kit and the significant cost to complete one as described, we will review one at camp during your course. Please review the contents list and be prepared to ask questions about how to correctly use those items.

Fish and Wildlife Management

5. Do ONE of the following:

- a. Construct, erect, and check regularly at least two artificial nest boxes (wood duck, bluebird, squirrel, etc.) and keep written records for one nesting season.
- b. Construct, erect, and check regularly bird feeders and keep written records of the kinds of birds visiting the feeders in the winter.
- c. Design and implement a back-yard wildlife habitat improvement project and report the results.

Fishing

7. Obtain and review a copy of the regulations affecting game fishing where you live.

Explain why they were adopted and what you accomplish by following them.

Forestry

5. With your parent's and counselor's approval, do ONE of the following:

- (a) Visit a managed public or private forest area with the manager or a forester who is familiar with it. Write a brief report describing the type of forest, the management objectives, and the forestry techniques used to achieve the objectives.
- (b) With a knowledgeable individual, visit a logging operation or wood-using manufacturing plant. Write a brief report describing the following:
 - (1) The species and size of trees being harvested or used and the location of the harvest area or manufacturer
 - (2) The origin of the forest or stands of trees being utilized (e.g., planted or natural)
 - (3) The forest's successional stage. What is its future?
 - (4) Where the trees are coming from (land ownership) or where they are going (type of mill or processing plant)
 - (5) The products that are made from the trees
 - (6) How the products are made and used
 - (7) How waste materials from the logging operation or manufacturing plant are disposed of or utilized
- (c) Take part in a forest-fire prevention campaign in cooperation with your local fire warden, state wildfire agency, forester, or counselor. Write a brief report describing the campaign, how it will help prevent wildfires, and your part in it.

6. In your camp, local recreation area (park or equivalent), or neighborhood, inventory the trees that may be a hazard to structures or people. Make a list by area (campsite, road, trail, street, etc.). Note the species and hazardous condition, and suggest a remedy (removal or trimming). Make your list available to the proper authority or agency

Game Design

No Prerequisites.

Indian Lore

2. Give the history of one American Indian tribe, group, or nation that lives or has lived near you. Visit it if possible. Tell about traditional dwellings, way of life, tribal government, religious beliefs, family and clan relationships, language, clothing styles, arts and crafts, food preparation, means of getting around, games, customs in warfare, where members of the group now live, and how they live.

Purchase a kit at the camp trading post after attending the first session.

Journalism

2. Do either A OR B:

(a) Newspaper, magazine, and online journalism

(1) All on the same day, read a local newspaper, a national newspaper, a newsmagazine, and (with your parent's permission) an online news source. From each source, clip, read, and compare a story about the same event. Tell your counselor how long each story is and how fair and accurate the stories are in presenting different points of view. Tell how each source handled the story differently, depending on its purpose or audience

(2) Visit the office of a newspaper, magazine, or internet news site. Ask for a tour of the various divisions (editorial, business, and printing). During your tour, talk to an executive from the business side about management's relations with reporters, editors, and photographers and what makes a "good" newspaper, magazine, or internet news site.

(b) Radio and television journalism

(1) All on the same day, watch a local and national network newscast, listen to a radio newscast, and (with your parent's permission) view a national broadcast news source online. List the different news items and features presented, the different elements used, and the time in minutes and seconds and the online space devoted to each story Compare the story lists, and discuss whether the stories are fair and accurate. Explain why different news outlets treated the stories differently and/or presented a different point of view.

(2) Visit a radio or television station. Ask for a tour of the various departments, concentrating on those related to news broadcasts. During your tour, talk to the station manager or other station management executive about station operations, particularly how management and the news staff work together, and what makes a "good" station. If possible, go with a reporter to cover a news event.

Kayaking

Must be a BSA Swimmer.

Leatherwork

5. Do ONE of the following:

- a. Learn about the commercial tanning process. Report about it to merit badge counselor.
- b. Tan the skin of a small animal. Describe the safety precautions you will take and the tanning method that you used.
- c. Braid or plait an article out of leather or vinyl lace.
- d. Visit a leather-related business. This could be a leathercraft supply company, a tannery, a leather goods or shoe factory, or a saddle shop. Report on your visit to your counselor.
 - Purchase kit at trading post after attending the first session

Lifesaving

Must be a BSA Swimmer.

Mammal Study

3. Do ONE of the following:

- c. From study and reading, write a simple life history of one nongame mammal that lives in your area. Tell how this mammal lived before its habitat was affected in any way by humans. Tell how it reproduces, what it eats, and its natural habitat. Describe its dependency upon plants and other animals (including humans), and how they depend upon it. Tell how it is helpful or harmful to humankind.

Nature

4. Do ... the following:

(a) Birds

- (1) In the field, identify eight species of birds.
- (2) Make and set out a birdhouse OR a feeding station OR a birdbath.
List what birds used it during a period of one month.

Nuclear Science

No Prerequisites

Orienteering

7. Do the following:
 - a. Take part in three orienteering events. One of these must be a cross-country course.
 - b. After each event, write a report with (1) a copy of the master map and control description sheet, (2) a copy of the route you took on the course, (3) a discussion of how you could improve your time between control points, and (4) a list of your major weaknesses on this course. Describe what you could do to improve.
8. Do ONE of the following:
 - a. Set up a cross-country course that is at least 2,000 meters long with at least five control markers. Prepare the master map and control description sheet.
 - b. Set up a score orienteering course with at least 12 control points and a time limit of at least 60 minutes. Set point values for each control. Prepare the master map and control description sheet.
9. Act as an official during an orienteering event. This may be during the running of the course you set up for requirement 8.
10. Teach orienteering techniques to your patrol, troop, or crew.

Personal Fitness

1. Do the following:
 - (b) Have a dental examination. Get a statement saying that your teeth have been checked and cared for. Tell how to care for your teeth.
7. Outline a comprehensive 12-week physical fitness program using the results of your fitness tests. Be sure your program incorporates the endurance, intensity, and warm-up guidelines discussed in the Personal Fitness merit badge pamphlet. Before beginning your exercises, have the program approved by your counselor and parents.
8. Complete the physical fitness program you outlined in requirement 7. Keep a log of your fitness program activity (how long you exercised; how far you ran, swam, or biked; how many exercise repetitions you completed; your exercise heart rate; etc.). Repeat the aerobic fitness, muscular strength, and flexibility tests every two weeks and record your results. After the 12th week, repeat all of the required activities in each of the three test categories, record your results, and show improvement in each one. For the body composition evaluation, compare and analyze your preprogram and post program body composition measurements. Discuss the meaning and benefit of your experience, and describe your long-term plans regarding your personal fitness.

Photography

Show your counselor your current, up-to-date Cyber Chip.

Pioneering

No Prerequisites

Plant Science

No Prerequisites

Reptile and Amphibian Study

8. Maintain one or more reptiles or amphibians for at least a month. Record the food accepted, eating methods, changes in coloration, shedding of skins, and general habits; or keep the eggs of a reptile from the time of laying until hatching; or keep the eggs of an amphibian from the time of laying until their transformation into tadpoles (frogs) or larvae (salamanders).

Rifle Shooting

No Prerequisites

Rowing

Must be a BSA Swimmer.

Scholarship

1. Do ONE of the following:

- (a) Show that your school grades have been an average of B or higher (80 percent or higher) for one term or semester.
- (b) Show that for one term or semester you have improved your school grades over the previous period.

2. Do TWO of the following:

- (a) Make a list of educational places located where you live (other than schools). Visit one, and report on how you used the place for self-education.
- (b) With your counselor's and your parent's approval, interview two professionals (other than teachers or other professionals at your school) with established careers. Find out where they were educated, what training they received, and how their education and training have helped prepare them for the career they have chosen. Find out how they continue to educate themselves. Discuss what you find out with your counselor.
- (c) Using a daily planner, show your counselor how you keep track of assignments and activities, and discuss how you manage your time. (d) Discuss the advantages and disadvantages of the different methods of research available to you for school assignments, such as the library, books and periodicals, and the internet.

3. Get a note from the principal* of your school (or another school official named by the principal) that states that during the past year your behavior, leadership, and service have been satisfactory.

5. Do ONE of the following: (a) Write a report of 250 to 300 words about how the education you receive in school will be of value to you in the future and how you will continue to educate yourself in the future. (b) Write a report of 250 to 300 words about two careers that interest you and how specific classes and good scholarship in general will help you achieve your career goals.

*If you are home-schooled or your school environment does not include a principal, you may obtain a note from a counterpart such as your parent.

Shotgun Shooting

Must be 13.

Soil and Water Conservation

7. Do TWO of the following:

(a) Make a trip to TWO of the following places. Write a report of more than 500 words about the soil and water and energy conservation practices you saw.

(1) An agricultural experiment

(2) A managed forest or woodlot, range, or pasture

(3) A wildlife refuge or a fish or game management area

(4) A conservation-managed farm or ranch

(5) A managed watershed

(6) A waste-treatment plant

(7) A public drinking water treatment plant

(8) An industry water use installation

(9) A desalinization plant

(b) Plant 100 trees, bushes, and/or vines for a good purpose.

(c) Seed an area of at least $\frac{1}{5}$ acre for some worthwhile conservation purpose, using suitable grasses or legumes alone or in a mixture.

(d) Study a soil survey report. Describe the things in it. On tracing paper over any of the soil maps, outline an area with three or more different kinds of soil. List each kind of soil by full name and map symbol.

(e) Make a list of places in your neighborhood, camps, school ground, or park that have erosion, sedimentation, or pollution problems. Describe how these could be corrected through individual or group action.

(f) Carry out any other soil and water conservation project approved by your merit badge counselor.

Swimming

Must be a BSA Swimmer.

Textile

No Prerequisites.

Theater

1. See or read three full-length plays.* Write a review of each. Discuss with your counselor the plot or story. If you chose to watch the plays, comment on the acting and the staging.

*Watching plays on television, video, or as a movie is not permitted

Weather

No Prerequisites.

Welding

Purchase a \$14.00 kit at the trading post.

Wilderness Survival

5. Put together a personal survival kit and explain how each item in it could be useful.

Bring your personal survival kit to camp and be prepared to discuss how each item in it could be useful.

Woodcarving

2nd year+ Camper

Earn the Totin' Chip card which you must bring with you to camp.

Purchase kit at camp trading post after attending the first session