

MERIT BADGE	LOCATION	PRE-REQUISITES	REQUIRED ITEM/ATTIRE
ALL PRE-REQUISITES ARE SUBJECT TO CHANGE			
Action Archery	Archery Range	Must be 14 years of age or older Must have the archery merit badge	
Archery	Archery Range		
Art/Fingerprinting	Boyd Pavillion	Art: 6. With your parent or guardian's permission and your counselor's approval, visit a museum, art exhibit, art gallery, artists' co-op, or artist's workshop. Find out about the art displayed or created there. Discuss what you learn with your counselor.	
Astronomy	Nature Lodge		
ATV	West Berry past the Fort	Must be 14 years of age or older	Jeans, Long shirt, Boots
Automotive Maintenance/Traffic Safety	Ranger Shop		
Basketry	Boyd Pavillion		

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Camping		<p>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:</p> <ul style="list-style-type: none"> (a) Compass. (b) GPS reciever. (c) Smartphone with a GPS app. <p>4a. Make a duty roster showing how your patrol is organized for an actual overnight campout. List assignments for each member.</p> <p>4b. 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.</p> <p>5e. Present yourself to your Scoutmaster with your pack for inspection. Be correctly clothed and equipped for an overnight campout.</p> <p>7. Prepare for an overnight campout with your patrol by doing the following:</p> <ul style="list-style-type: none"> (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. <p>8c. At least one of those meals must be a trail meal requiring the use of a lightweight stove.</p> <p>8d. Cook at least one breakfast, one lunch, and one dinner for your patrol from the meals you have planned for requirement</p> <p>9a. Camp a total of at least 20 days and 20 nights. Sleep each night under the sky or in a tent you have pitched. The 20 days and 20 nights must be at a designated Scouting activity or event. You may use a week of long-term camp toward this requirement. If the camp provides a tent that has already been pitched, you need not pitch your own tent.</p> <p>9b. On any of these camping experiences, you must do TWO of the following, only with proper preparation and under qualified supervision.</p> <ul style="list-style-type: none"> (1) Hike up a mountain, gaining at least 1,000 vertical feet. (2) Backpack, snowshoe, or cross-country ski for at least 4 miles. 6 (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. <p>9c. On any of these camping experiences, perform a conservation project approved by the landowner or land managing agency. This can be done alone or with others.</p>	
Canoeing	Lake of the Pines	Successfully complete the BSA swimmer test.	Swim attire preferred
Chemistry			
Chess			

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Citizenship in the World	Scoutmaster Corral	<p>Do TWO of the following:</p> <p>7a. Visit the web site of the U.S. State Department. Learn more about an issue you find interesting that is discussed on this web site.</p> <p>7b. Visit the web site 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.</p> <p>7c. Visit with a student or Scout from another country and discuss the typical values, holidays, ethnic foods, and traditions practiced or enjoyed there.</p> <p>7d. Attend a world Scout jamboree.</p> <p>7e. Participate in or attend an international event in your area, such as an ethnic festival, concert, or play.</p>	
Climbing	Climbing Tower		
Communications/ Public Speaking	Scoutmaster Corral	<p>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.</p>	
Cooking	Gardner Pavillion	<p>Cooking at Home. Do the following:</p> <p>4a. 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 keep your foods safe and free from cross-contamination. List the equipment and utensils needed to prepare and serve these meals.</p> <p>4b. Find recipes for each meal. Create a shopping list for your meals showing the amount of food needed to prepare for the number of people you will serve. Determine the cost for each meal.</p> <p>4c. Share and discuss your meal plan and shopping list with your counselor.</p> <p>4d. Using at least five of the 10 cooking methods from requirement 3, prepare and serve yourself and at least one adult (parent, family member, guardian, or other responsible adult) one breakfast, one lunch, one dinner, and one dessert from the meals you planned. The meals for requirement 4 may be prepared on different days, and they need not be prepared consecutively. Those served need not be the same for all meals.</p> <p>4e. Time your cooking to have each meal ready to serve at the proper time. Have an adult verify the preparation of the meal to your counselor.</p> <p>4f. After each meal, ask a person you served to evaluate the meal on presentation and taste, then evaluate your own meal. Discuss what you learned with your counselor, including any adjustments that could have improved or enhanced your meals. Tell how planning and preparation help ensure a successful meal.</p> <p>Note: The meals prepared for Cooking merit badge requirements 4, 5, and 6 will count only toward fulfilling those requirements and will not count toward rank advancement or other merit badges. Meals prepared for rank advancement or other merit badges may not count toward the Cooking merit badge. You must not repeat any menus for meals actually prepared or cooked in requirements 4, 5, and 6.</p>	

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Digital Technology			
Env. Science	Nature Lodge		
Emergency Preparedness	Scoutmaster Corral	<p>3a. At a family meeting, discuss the situations on the chart you created for requirement 2b and make emergency plans for sheltering-in-place and for evacuation of your home. Discuss your family meeting and plans with your counselor.</p> <p>3b. Develop and practice a plan of escape for your family in case of fire in your home. Draw a floor plan with escape routes and a map with a safe meeting place. Discuss your family's home escape plan with your counselor.</p> <p>3c. Using a checklist in the Emergency Preparedness Merit Badge pamphlet or one approved by your counselor, prepare or inspect a family disaster kit for sheltering-in-place and for evacuation of your home. Review the needs and uses of the items in a kit with your counselor.</p> <p>8b. Find out how your community and its leaders work to manage and to train for disasters. Discuss this information with your counselor, using the information you learned from requirement 1b.</p>	
Energy		<p>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.</p> <p>4a. 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.</p>	
First Aid	Scoutmaster Corral	<p>2b. (1) Assemble a personal first-aid kit for hiking and backpacking. Demonstrate the proper use of each item in your first-aid kit to your counselor.</p> <p>14. With guidance from your counselor, develop a plan to teach a first-aid skill or topic using the EDGE method. Discuss your skill, topic, and plan with your counselor, and then teach your skill or topic to your family or to one or more Scouts.</p>	
Fishing		7. Obtain & review the regulations affecting game fishing where you live. Explain why they were adopted and what is accomplished by following them.	
Kayaking	Lake of the Pines	Successfully complete the BSA swimmer test.	Swim attire preferred
Leatherwork	Boyd Pavillion		
Lifesaving	Pool	<p>2a. Earn the Swimming merit badge.</p> <p>16b. Demonstrate CPR knowledge and skills, including rescue breathing, on a mannequin under the guidance of a current CPR/AED instructor trained by a nationally certified provider.</p>	
Mammal Study	Nature Lodge		
Metalworking	Ranger Shop		Jeans, Boots Preferable
Nature	Nature Lodge		
Nuclear Science			
Painting	Boyd Pavillion		
Pioneering/ Wilderness Survival		<p>Wilderness Survival:</p> <p>5. Put together a personal survival kit and explain how each item in it could be useful.</p>	Personal survival kit, plastic tarp
Plumbing	Ranger Shop		
Pottery	Boyd Pavillion		

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Oceanography	Nature Lodge	<p>Do ONE of the following:</p> <p>7a. Make a plankton net. Tow the net by a dock, wade with it, hold it in a current, or tow it from a rowboat. Do this for about 20 minutes. Save the sample. Examine it under a microscope or high-power glass. Identify the three most common types of plankton in the sample.</p> <p>7b. Make a series of models (clay or plaster and wood) of a volcanic island. Show the growth of an atoll from a fringing reef through a barrier reef. Describe the Darwinian theory of coral reef formation.</p> <p>7c. Measure the water temperature at the surface, midwater, and bottom of a body of water four times daily for five consecutive days. You may measure depth with a rock tied to a line. Make a Secchi disk to measure turbidity (how much suspended sedimentation is in the water). Measure the air temperature. Note the cloud cover and roughness of the water. Show your findings (air and water temperature, turbidity) on a graph. Tell how the water temperature changes with air temperature.</p> <p>7d. Make a model showing the inshore sediment movement by littoral currents, tidal movement, and wave action. Include such formations as high and low waterlines, low-tide terrace, berm, and coastal cliffs. Show how offshore bars are built up and torn down.</p> <p>7e. Make a wave generator. Show reflection and refraction of waves. Show how groins, jetties, and breakwaters affect these patterns.</p> <p>7f. Track and monitor satellite images available on the Internet for a specific location for three weeks. Describe what you have learned to your counselor.</p>	
Orienteering		<p>Do ONE of the following:</p> <p>8a. 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.</p> <p>8b. 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.</p> <p>Do the following:</p> <p>9. Act as an official during an orienteering event. This may be during the running of the course you set up for requirement 8.</p> <p>10. Teach orienteering techniques to your patrol, troop or crew.</p>	

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Reptile & Amphibian	Nature Lodge	<p>Do ONE of the following:</p> <p>8a. Take custody of one or more reptiles or amphibians in a manner approved by your counselor. Maintain one or more reptiles or amphibians for at least a month. Record 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). Whichever you chose, keep records of and report to your counselor how you cared for your animal/eggs/larvae to include lighting, habitat, temperature and humidity maintenance and any veterinary care requirements. Unless you are the long-term owner, at the conclusion of this study, turn the animal(s) over to another responsible party approved by your counselor.</p> <p>8b. Choose a reptile or amphibian that you can observe or foster at a local zoo, aquarium, nature center, local rescue, or other such exhibit (such as your classroom or school). Study the specimen weekly for a periods of three months. At each visit, sketch the specimen in its captive habitat and note any changes in its coloration, shedding of skins, and general habits and behavior. Discuss with your counselor how the animal you observed was cared for to include its housing and habitat, how the lighting, temperature, and humidity were maintained, and any veterinary care requirements. Find out, either from information you locate on your own or by talking to the caretaker, what this species eats and what are its native habitat and home range, preferred climate, average life expectancy, and natural predators. Also identify any human-caused threats to its population and any laws that protect the species and its habitat. After the observation period, share what you have learned with your counselor.</p>	
Rifle	Rifle Range		
Robotics	Office		
Rowing	Lake of the Pines		Swim attire preferred
Search and Rescue		<p>4. Find out who in your area has authority for search and rescue and what their responsibilities are. Discuss this with your counselor, and explain the official duties of a search and rescue team.</p> <p>10. Find out about three career or volunteer opportunities in search and rescue. Pick one and find out the education, training, and experience required for this professional or volunteer position. Discuss this with your counselor, and explain why this position might interest you.</p>	
Shotgun	Shotgun Range	Must be 14 years of age or older.	
Swimming	Pool		One piece swim suit/trunks
Weather	Nature Lodge		
Welding	Ranger Shop		Jeans, Boots Preferable
Woodcarving	Boyd Pavillion	2a: Earn the Totin' Chip recognition.	

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