



Archaeology

Prerequisite: **GOSHEN** (none) **RODNEY** (9)

Comments: 2nd year and older Scouts. Will require short papers, class discussions, and presentations for completion.

Requirements: 9

9. Under the supervision of a qualified archaeologist or instructor, do ONE of the following:
 - a. Help prepare an archaeological exhibit for display in a museum, visitor, or other public area.
 - b. Use the methods of experimental archaeology to re-create an item or to practice a skill from the past. Write a brief report explaining the experiment and its results.



Architecture

Prerequisite: **GOSHEN** (2)

Comments: Good for older Scouts

Requirements:

2. Arrange to meet with an architect. Ask to see the architect's office and to talk about the following:
 - a. Careers in architecture
 - b. Educational requirements
 - c. Tools an architect uses
 - d. Processes involved in a building project.



Archery

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

Comments: **GOSHEN&RODNEY** Some Shooting Experience recommended. Difficult merit badge to complete. Minimum score required for completion. Free shoot time may be needed to finish.

Requirements: None



Art

Prerequisite: **GOSHEN** (4) **RODNEY** (none)

Comments: **GOSHEN** Good for any scout

Comments: **RODNEY** 2nd year and older scouts

Requirements: **GOSHEN** (4)

4. Requirements:
With your parent'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

Prerequisite: **GOSHEN** (5b & 6) **RODNEY** (6)

GOSHEN Comments: Weather permitting, time consuming

RODNEY Comments: Since we can not guarantee clear skies we suggest that some or all of the work for requirements 5b, and 6

5. Requirements:

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. 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. Update your chart monthly to show whether each planet will be visible during the early morning or in the evening sky.
6. At approximately weekly intervals, sketch the position of Venus, Mars or Jupiter in relation to the stars. Do this for at least four weeks and at the same time of night. On your sketch, record the date and time next to the planet's position. Use your sketch to explain how planets move.
7. Do the following:
- a. Sketch the face of the moon and indicate at least five seas and five craters. Label these landmarks.
 - b. Sketch the phase and the daily position of the Moon at the same hour and place, for a week. Include landmarks on the horizon such as hills, trees, and buildings. Explain the changes you observe.



Aviation

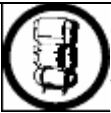
Prerequisite: **GOSHEN** (4) **RODNEY** (none)

GOSHEN Comments: Good for older scouts

RODNEY Comments: Must be at least 14-years-old. ONLY offered as part of the **RODNEY** Outdoor Challenge program.

Requirements:

4. Do ONE of the following:
- a. Visit an airport. After the visit, report on how the facilities are used, how runways are numbered, and how runways are determined to be "active."
 - b. Visit a Federal Aviation Administration facility control tower, terminal radar control facility, air route traffic control center, flight service station, or Flight Standards District Office. (Phone directory listings are under U.S. Government Offices, Transportation Department, Federal Aviation Administration. Call in advance.) Report on the operation and your impressions of the facility.
 - c. Visit an aviation museum or attend an air show. Report on your impressions of the museum or show.



Backpacking

Prerequisite: **GOSHEN** (8b, 8c, 8d, 9b, 9d, 9e, 10, 11)

GOSHEN Comments: Good for older Scouts

Requirements:

8. Do the following:

- a. Explain the advantages and disadvantages of three different types of backpacking stoves using at least three different types of fuel.
- b. Demonstrate that you know how to operate a backpacking stove safely and to handle liquid fuel safely.
- c. Prepare at least three meals using a stove and fuel you can carry in a backpack.
- d. Demonstrate that you know how to keep cooking and eating gear clean and sanitary and that you practice proper methods for food storage while on a backpacking trek.

9. Do the following:

- a. Write a plan for a patrol backpacking hike that includes a time control plan.
- b. Show that you know how to properly pack your personal gear and your share of the crew's gear and food.
- c. Show you can properly shoulder your pack and adjust it for proper wear.
- d. Conduct a pre hike inspection of the patrol and its equipment.
- e. While carrying your pack, complete a hike of at least 2 miles.

10. Using Leave No Trace principles, participate in at least three backpacking treks of at least three days each and at least 15 miles each, and using at least two different campsites on each trek. Carry everything you will need throughout the trek.

11. Do the following:

- a. Write a plan for a backpacking trek of at least five days using at least three different campsites and covering at least 30 miles. Your plan must include a description of and route to the trek area, a schedule (including a daily schedule), a list of food and equipment needs, a safety and emergency plan, and a budget.
- b. Using Leave No Trace principles, take the trek planned and, while on the trek, complete at least one service project approved by your merit badge counselor.
- c. Keep a daily journal during the trek that includes a day-by-day description of you activities, including notes about what worked well and thoughts about improvements that could be made for the next trek.



Basketry

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Cost of materials \$25

RODNEY Comments: All materials provided. Included in Brownsea program.

Requirements: None



Bird Study

Prerequisite: **GOSHEN** (none)

GOSHEN Comments: Good for Scouts with a major interest.

Requirements: Requires studying while at camp.



Camping

Prerequisite: **GOSHEN** (7b, 8c, 9) **RODNEY** (8c, 8d, 9)

GOSHEN Comments: Good for older scouts

RODNEY Comments: Conservation project in requirement 9 can be completed during camp, recommended to be done ahead of time.

Requirements:

7. Do the following:
 - a. Prepare a list of clothing you would need for overnight campouts in warm weather and in cold weather.
 - b. Discuss footwear for different kinds of weather and how the right footwear is important for protecting your feet.
 - c. Explain the proper care and storage of camping equipment (clothing, footwear, bedding).
 - d. Explain the term "layering."
 - e. Present yourself with your pack for inspection. Be correctly clothed and equipped for an overnight campout.
8. Do the following:
 - a. Describe the features of four types of tents and how to care for tents. Working with another Scout, pitch a tent.
 - b. Discuss the reasons and methods of water purification. Discuss camp sanitation.
 - c. Tell the difference between "internal" and "external" frame packs. Discuss the advantages and disadvantages of each.
 - d. Discuss the types of sleeping bags and what kind would be suitable for different conditions. Explain the proper care of your sleeping bag. Make a comfortable ground bed.
9. 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. Prepare a camp menu that is right for backpacking. Give recipes and make a food list for your patrol. Plan two breakfasts, three lunches, and two suppers. Discuss how to protect your food against bad weather, animals, and contamination.
 - c. 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.



Canoeing

Prerequisite: **GOSHEN** (none) **RODNEY**(1, 2)

GOSHEN Comments: Physical strength needed, pass swim test first day

RODNEY Comments: Pass swim test, Boat shoes needed – no aqua socks.

Requirements:

1. Show that you know first aid for injuries or illnesses that co-occur while canoeing, including hypothermia, heat reactions, dehydration, insect stings, tick bites, and blisters.

2. Do the following:
 - a. Identify the conditions that must exist before performing CPR on a person. Explain how such conditions are recognized.
 - b. Demonstrate the proper technique for performing CPR using a training device approved by your counselor.
3. Before doing the following requirements, successfully complete the BSA swimmer test: Jump feetfirst into water over the head in depth. Level off and swim 75 yards in a strong manner using one or more of the following strokes: sidestroke, breaststroke, trudgen, or crawl; then swim 25 yards using an easy, resting backstroke. The 100 yards must be completed in one swim without stops and must include at least one sharp turn. After completing the swim, rest by floating.

Carpentry *Only in 2010*

Prerequisite: **RODNEY** (none)

RODNEY Comments: 2nd year or older Scouts.

Requirements:



Cinematography

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

RODNEY Comments: 3rd year or older Scouts. Personal digital cameras are encouraged to be used.

Requirements:



Citizenship in the World

Prerequisite: **GOSHEN** (7)

GOSHEN Comments: Good for older Scouts.

Requirements:

7. Do TWO of the following and share with your counselor what you have learned:
 - a. Visit the Web site (With your parent/guardian's permission) of the U.S. State Department. Learn more about an issue you find interesting that is discussed on this Web site.
 - b. Visit the Web site (With your parent/guardian's permission) 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

Prerequisite: **GOSHEN** (none) **RODNEY** (1)

Comments: 3rd year or older Scouts. .Physically demanding, may de difficult for some Scouts.

Requirements:

1. Do the following:
 - a. Show that you know first aid for and how to prevent injuries or illnesses that could occur during climbing activities, including heat and cold reactions, dehydration, stopped breathing, sprains, abrasions, fractures, rope burns, blisters, snakebite, and insect bites or stings.
 - b. Identify the conditions that must exist before performing CPR on a person.



Communications

Prerequisite: **GOSHEN** (8)

GOSHEN Comments: Not for first year scouts

Requirements: Should be done in camp by the Troop

8. Plan a troop court of honor or campfire program. Have the patrol leaders' council approve it, then write the script and prepare the program. Serve as master of ceremonies.



Computers

Prerequisite: **GOSHEN** (7) **RODNEY** (none)

GOSHEN Comments: Good for older scouts

Requirements: None

7. Do ONE of the following:
 - a. Visit a business or an industrial plant that uses computers. Observe what tasks the computers accomplish, and be prepared to discuss what you have learned.
 - b. Using a software package of your choice for computer-aided design (CAD), create an engineering-style drawing of a simple object. Include the top, bottom, and at least one side view and the dimensions.
 - c. Use a general purpose programming language to write a simple program application of your choice, subject to approval by your counselor.
 - d. Design a Web page for your troop, patrol, school, or place of worship. You need not post the page to a Web site. However, if you decide to do so, you will first need to get your parent's permission and your counselor's approval, as well as permission from the host site.



Cooking

Prerequisite: **RODNEY** (3, 4, 5, 6, 7)

RODNEY Comments: Prerequisite vital to completion of merit badge in camp.

Requirements:

3. Plan a menu for two straight days (six meals) of camping. Include the following:
 - a. A camp dinner with soup; meat, fish, poultry, or an appropriate substitute; two fresh vegetables; drink; and dessert. All are to be properly prepared. When preparing your menu, follow the nutritional guidelines set by the food pyramid.
 - b. A one-pot dinner. Use foods other than canned.
 - c. Using the menu planned for requirement 3, make a food list showing cost and amount needed to feed three or more boys.
 - d. List the utensils needed to cook and serve these meals.
4. Using the menu planned for requirement 3, do the following and discuss the process with your merit badge counselor:
 - a. Prepare and server for yourself and two others, the two dinners, one lunch, and one breakfast. Time your cooking so that each course will be ready to serve at the proper time.

◆ The meals for this requirement may be prepared for different trips. They need not be prepared consecutively. Scouts working on this badge at summer camp should plan around food they can get at the camp commissary.

- b. For meals prepared in requirement 4a for which a fire is needed, use a lightweight stove or build a low-impact fire. Include support for your cooking utensils from rocks, logs, or like material. The same fireplace may be used for more than one meal. Use a backpacking stove to cook at least one meal. (Where local regulations do not allow you to do this, the counselor may change the requirement to meet the law.)
 - c. For each meal prepared in requirement 4a, use safe food-handling practices. Dispose of garbage, cans, foil, paper, and other rubbish by packing them out and depositing them in a proper container. After each meal, clean up the site thoroughly.
5. Plan a menu for one day (three meals) or for four meals over a two-day period of trail hiking or backpacking. Include the following:
 - a. A breakfast, lunch, and dinner for a trail or backpacking trip where light weight is important. You should be able to store all foods used for several days without refrigeration. When preparing your menu, follow the nutritional guidelines set by the food pyramid.

◆ The meals for this requirement may be prepared for different trips. They need not be prepared consecutively. Scouts working on this badge at summer camp should plan around food they can get at the camp commissary.

- b. Using the menu planned for requirement 5, make a food list showing cost and amount needed to feed three or more boys.
 - c. List the utensils needed to cook and serve these meals.
 - d. Figure the weight of the foods in requirement 5a.
6. Using the menu planned for requirement 5a, do the following:
 - a. Prepare and serve for yourself and two others, the trail breakfast and dinner. Time your

cooking so that each course will be ready to serve at the proper time.

- The meals for this requirement may be prepared for different trips. They need not be prepared consecutively. Scouts working on this badge at summer camp should plan around food they can get at the camp commissary.
 - b. Use an approved trail stove (with proper supervision) or charcoal to prepare your meals.
 - c. For each meal prepared in requirement 6a, use safe food-handling practices. Dispose of garbage, cans, foil, paper, and other rubbish by packing them out and depositing them in a proper container. After each meal, clean up the site thoroughly.
- 7. Plan a menu for three full days of meals (breakfast, lunch, and dinner) to be cooked at home.
 - a. When preparing your menu, follow the nutritional guidelines set by the food pyramid. All meals are to be cooked or properly prepared.
 - b. Using the menu planned for requirement 7, make a food list, showing cost and amount needed to feed yourself and at least one adult (parent, family member, guardian, or other responsible adult).
 - c. Tell what utensils were needed to cook and serve these meals.
 - d. Prepare and serve a breakfast, lunch, and dinner from the menu you planned for requirement 7. Time your cooking to have each course ready to serve at the proper time. Have an adult verify the preparation of the meal to your counselor.



Electricity

Prerequisite: **GOSHEN** (2, 8)

GOSHEN Comments: Good for older scout

Requirements:

- 2. Complete an electrical home safety inspection of your home, using the checklist found in this pamphlet or one approved by your counselor. Discuss what you find with your counselor.
- 8. On a floor plan of a room in your home, make a wiring diagram of the lights, switches, and outlets. Show which fuse or circuit breaker protects each one.



Electronics

Prerequisite: **GOSHEN** (none)

GOSHEN Comments: Good for older scout

Requirements: None



Emergency Preparedness

Prerequisite: **GOSHEN** (1, 2c) **RODNEY** (1, 2b, 2c, 8c)

GOSHEN Comments: Good for older scout

RODNEY Comments: Requires First Aid Merit badge

Requirements:

1. Earn the First Aid Merit Badge.
2. Do the following:
 - a. Discuss with your counselor these three aspects of emergency preparedness:
 1. **Recognition** of a potential emergency situation
 2. **Prevention** of an emergency situation
 3. **Reaction** to an emergency situation

Include in your discussion the kinds of questions that are important to ask yourself as you consider each of these.

- b. Make a chart that demonstrates your understanding of each of the three aspects of emergency preparedness in requirement 2a (recognition, prevention, and reaction) with regard to 10 of the situations listed below. **You must use situations 1, 2, 3, 4, and 5*** but may choose any other five for a total of 10 situations. Discuss this chart with your counselor.
 1. **Home kitchen fire***
 2. **Home basement/storage room/garage fire***
 3. **Explosion in the home***
 4. **Automobile accident***
 5. **Food-borne disease (food poisoning)***
 6. Fire or explosion in a public place
 7. Vehicle stalled in the desert
 8. Vehicle trapped in a blizzard
 9. Flash flooding in town or the country
 10. Mountain/backcountry accident
 11. Boating accident
 12. Gas leak in a building
 13. Tornado or hurricane
 14. Major flood
 15. Nuclear power plant emergency
 16. Avalanche (snowslide or rockslide)
 17. Violence in a public place
- c. Meet with and teach your family how to recognize, prevent, and react to the situations on the chart you created for requirement 2b. Then meet with your counselor and report on your family meeting, discussing their responses.

8. Do the following:
 - a. Prepare a written plan for mobilizing your troop when needed to do emergency service. If there is

already a plan, explain it. Tell your part in making it work.

- b. Take part in at least one troop mobilization. Before the exercise, describe your part to your counselor. Afterward, conduct an "after-action" lesson, discussing what you learned during the exercise that required changes or adjustments to the plan.
- c. Prepare a [personal emergency service pack](#) for a mobilization call. Prepare a [family kit](#) (suitcase or waterproof box) for use by your family in case an emergency evacuation is needed. Explain the needs and uses of the contents.



Energy

Prerequisite: **GOSHEN** (4) **ROFNEY** (1a, 4)

GOSHEN Comments: Good for older scout

Requirements:

1. Do the following:
 - a. Find an article on the use or conservation of energy. Discuss with your counselor what in the article was interesting to you, the questions it raises, and what ideas it addresses that you do not understand.
 - b. After you have completed requirements 2 through 8, revisit the article you found for requirement 1a. Explain to your counselor what you have learned in completing the requirements that helps you better understand the article.
2. 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 how you can change your energy use through reuse and recycling.



Engineering

Prerequisite: **GOSHEN** (none)

GOSHEN Comments: Good for older scout

Requirements: None



Environmental Science

Prerequisite: **GOSHEN** (none) **RODNEY** (3f)

GOSHEN Comments: Not for first year scouts

RODNEY Comments: Requirement 3f must be started before camp.

Requirements:

3. f. Pollution Prevention, Resource Recovery, and Conservation
 1. Look around your home and determine 10 ways your family can help reduce pollution. Practice at least two of these methods for seven days and discuss with your counselor what you have learned.
 2. Determine 10 ways to conserve resources or use resources more efficiently in your home, at school, or at camp. Practice at least two of these methods for seven days and discuss with your counselor what you have learned.
 3. Perform an experiment on packaging materials to find out which ones are biodegradable. Discuss your conclusions with your counselor.



First Aid

Prerequisite: **GOSHEN** (none) **RODNEY** (2d)

GOSHEN&RODNEY Comments: Good for older scout

Requirements **RODNEY**:

- 2 d - Prepare a [first aid kit](#) for your home. Display and discuss its contents with your counselor.



Fish and Wildlife Management

Prerequisite: **GOSHEN** (5, 7) **RODNEY** (5)

GOSHEN& RODNEYComments: requires Scout to catch a fish; will not have poles available

Requirements:

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.
 - d. Design and construct a wildlife blind near a game trail, water hole, salt lick, bird feeder, or birdbath and take good photographs or make sketches from the blind of any combination of 10 wild birds, mammals, reptiles, or amphibians.
7. Do ONE of the following:
 - e. Determine the age of five species of fish from scale samples or identify various age classes of one species in a lake and report the results.
 - f. Conduct a creel census on a small lake to estimate catch per unit effort.
 - g. Examine the stomach contents of three species of fish and record the findings. It is not necessary to catch any fish for this option. You may iit a cleaning station set up for

fishermen or find another, similar alternative.

- h. Make a freshwater aquarium. Include at least four species of native plants and four species of animal life, such as whirligig beetles, freshwater shrimp, tadpoles, water snails, and golden shiners. After 60 days of observation, discuss with your counselor the life cycles, food chains, and management needs you have recognized. After completing requirement 7d to your counselor's satisfaction, with your counselor's assistance, check local laws to determine what you should do with the specimens you have collected.



Fishing

Prerequisite: **GOSHEN** (9) **RODNEY** (None)

GOSHEN&RODNEY Comments: Fishing Rod Required. May be time consuming. Practice knots for req.4

Requirements:

8. Catch two different kinds of fish and identify them. Release at least one of them unharmed. Clean and cook another fish.



Forestry

Prerequisite: **GOSHEN** (7) **RODNEY** (none)

GOSHENComments: Will do only if forester is available

RODNEY Comments: Not for first year scouts

Requirements:

7. Visit one or more local foresters and write a brief report about the person (or persons). Or, write about a forester's occupation including the education, qualifications, career opportunities, and duties related to forestry.



Geology

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Difficult to complete at camp

RODNEY Comments: Only a partial-week class offered with Mammal Study

Requirements: None



Hiking

Prerequisite: **GOSHEN** (5,6,7)

GOSHEN Comments: Difficult to complete at camp

Requirements:

5. Take five hikes, each on a different day, and each of 10 continuous miles. Prepare a hike plan for each hike.*
6. Take a hike of 20 continuous miles in one day following a hike plan you have prepared.*
7. After each of the hikes (or during each hike if on one continuous "trek") in requirements 5 and 6, write a short report of your experience. Give dates and descriptions of routes covered, the weather, and any interesting things you saw. Share this report with your merit badge counselor.



Indian lore

Prerequisite: **GOSHEN** (none) **RODNEY** (1)

GOSHEN Comments: Good for any scout May cost \$10-\$15

RODNEY Comments: All materials provided. Req. 1 must be brought to camp.

Requirements:

1. 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.



Insect Study

Prerequisite: **GOSHEN** (7)

GOSHEN Comments:

Requirements:

8. Raise an insect through the complete metamorphosis from its larval stage to its adult stage (e.g. raise a butterfly or moth from a caterpillar). *

* Some insects are endangered species and are protected by federal or state law. Every species is found only in its own special type of habitat. Be sure to check natural resources authorities in advance to be sure that you will not be collecting any species that is known to be protected or endangered, or in any habitat where collecting is prohibited. In most cases, all specimens should be returned at the location of capture after the requirement is met. Check with your merit badge counselor for those instances where the return of these specimens would not be appropriate.



Journalism

Prerequisite: **GOSHEN** (2) **RODNEY** (2)

GOSHEN&RODNEY Comments: Older scouts

Requirements:

2. Do either A OR B:

a. Newspaper and magazine 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 a newspaper or magazine office 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 or magazine.

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.



Leatherwork

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Good for first year scout, cost about \$15 for materials

RODNEY Comments: Good for first year scout, all materials provided



Lifesaving

Prerequisite: **GOSHEN** (1a) **RODNEY** (13b, 15)

GOSHEN Comments: 2 hours daily, For older scouts with strong swimming skills, long sleeve button down shirt, long pants, belt, shoes, and socks

RODNEY Comments: For older scouts with strong swimming skills, long sleeve button down shirt, long pants, belt, shoes, and socks

Requirements:

1. Before doing requirements 2 through 15
 - a. Complete Second Class rank requirements 7a through 7c and First Class rank requirements 9a through 9c.

Second Class rank requirements 7a through 7c:

(7a) Tell what precautions must be taken for a safe swim.

(7b) Demonstrate your ability to jump feetfirst into water over your head in depth, level off and swim 25 feet on the surface, stop, turn sharply, resume swimming, then return to your starting place.

(7c) Demonstrate water rescue methods by reaching with your arm or leg, by reaching with a suitable object, and by throwing lines and objects. Explain why swimming rescues should not be attempted when a reaching or throwing rescue is possible, and explain why and how a rescue swimmer should avoid contact with the victim.

First Class rank requirements 9a through 9c:

(9a) Tell what precautions should be taken for a safe trip afloat.

(9b) Successfully complete the BSA swimmer test.

- (9c) With a helper and a practice victim, show a line rescue both as tender and as rescuer. (The practice victim should be approximately 30 feet from shore in deep water).
- b. Swim continuously for 400 yards using each of the following strokes in a strong manner for at least 50 continuous yards: front crawl, sidestroke, breaststroke, and elementary backstroke.

13. Show that you know first aid for other injuries or illnesses that could occur while swimming or boating, including hypothermia, heat reactions, muscle cramps, sunburn, stings, and hyperventilation.



Mammals Study

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Part of first year program

RODNEY Comments: Only a partial-week class offered with Geology

Requirements: None



Medicine

Prerequisite: **RODNEY** (4b, 10)

RODNEY Comments: Good for older scouts. Be ready to explain work done for req. 4b and 10

Requirements:

4. Do the following:
- a. Describe the roles the following people play in the delivery of health care in your state. (Note: Not all may exist in your state.)
 1. Physician
 2. Chiropractor
 3. Optometrist
 4. Podiatrist
 5. Pharmacist
 6. Psychologist
 7. Physician's assistant
 8. Nurse practitioner
 9. Nurse-midwife
 10. Registered Nurse
 11. Licensed vocational/practical nurse
 12. Medical assistant
 13. Emergency medical technician
 14. Medical laboratory technologist
 15. Radiologic technologist
 16. Physical therapist
 17. Occupational therapist
 18. Respiratory therapist
 - b. Describe the educational and licensing requirements for five of those in 4a --other than 4a(1)- - practicing health care in your state.
 10. Serve as a volunteer at a health-related event or facility in your community (e.g. blood drive, "health fair", blood pressure screening, etc.) approved by your counselor



Motorboating

Prerequisite: **RODNEY** (1, 4a)

RODNEY Comments: Older Scouts, **MUST** pass swim test, **MUST** have a certificate of approved boater safety education my NASBLA to drive motorboat. Boat shoes needed – no aqua socks

Requirements:

1. Do the following:
 - a. Explain first aid for injuries that could occur while motorboating, including hypothermia, heat reactions, dehydration, motion sickness, insect stings, tick bites, and blisters.
 - b. Identify the conditions that must exist before performing CPR on a person, and explain how such conditions are recognized. Demonstrate proper technique for performing CPR using a training device approved by your counselor.

4. Show you know safety laws for motor boating by doing the following::
 - a. Have a permit to run a motorboat, if needed.
 - b. Explain the rules or laws that apply to recreational boating in your area or state.
 - c. Discuss how the hazards of weather and heavy water conditions can affect both safety and performance in motorboating.
 - d. Promise that you will follow BSA Safety Afloat guidelines. Explain the meaning of each point.
 - e. Discuss with your counselor the nautical rules of the road and describe the national and your state's aids to navigation.
 - f. Explain and show the correct use of equipment required by both state and federal regulations to be carried aboard a motorboat.
 - g. Explain federal and state rules for a ventilation system and tell why these rules are required.



Music

Prerequisite: **GOSHEN** (3)

GOSHEN Comments: Good for any scout

Requirements:

3. Do TWO of the following:
 - a. Attend a live performance, or listen to three hours of recordings from any two of the following musical styles: blues, jazz, classical, country, bluegrass, ethnic, gospel, musical theater, opera. Describe the sound of the music and the instruments used. Identify the composers or songwriters, the performers, and the titles of the pieces you heard. If it was a live performance, describe the setting and the reaction of the audience. Discuss your thoughts about the music.
 - b. Interview your parents and grandparents about music. Find out what the most popular music was when they were your age. Find out what their favorite music is now, and listen to three of their favorite tunes with them. How do their favorites sound to you? Had you ever heard any of them? Play three of your favorite songs for them, and explain to them why you like these songs. Ask them what they think of your favorite music.
 - c. Serve for six months as a member of a school band, choir, or other local musical group; or perform as a soloist in public six times.

- d. List five people who are important in the history of American music and explain to your counselor why they continue to be influential. Include at least one composer, one performer, one innovator, and one person born more than 100 years ago.



Nature

Prerequisite: **GOSHEN** (4a(2), 4d(2), 4f(1,2)) **RODNEY** (none)

GOSHEN Comments: Difficult to complete at camp

RODNEY Comments: Included in Brownsea program or separately

Requirements:

4. Do all the requirements in FIVE of the following fields:

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.

b. MAMMALS

1. In the field, identify three species of wild animals.
2. Make plaster casts of the tracks of a wild animal.

c. REPTILES and AMPHIBIANS

1. Show that you can recognize the poisonous snakes in your area.
2. In the field, identify three species of reptiles or amphibians.
3. Recognize one species of toad or frog by voice;
OR identify one reptile or amphibian by eggs, den, burrow or other signs.

d. INSECTS and SPIDERS

1. Collect, mount, and label 10 species of insects or spiders.
2. Hatch an insect from the pupa or cocoon;
OR hatch adults from nymphs;
OR keep larvae until they form pupae or cocoons;
OR keep a colony of ants or bees through one season.

e. FISH

1. Catch and identify two species of fish.
2. Collect four kinds of animal food eaten by fish in the wild.

f. MOLLUSKS AND CRUSTACEANS

1. Identify five species of mollusks and crustaceans.
2. Collect, mount, and label six shells.

g. PLANTS

1. In the field, identify 15 species of wild plants.
2. Collect and label seeds of six plants;
OR the leaves of 12 plants.

h. SOILS AND ROCKS

1. Collect and identify soils found in different layers of a soil profile.
2. Collect and identify five different types of rocks from your area.



Oceanography

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Not for first year scouts

RODNEY Comments: Shoes to wear in the water required

Requirements: None



Orienteering

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: 1 – 2 hours daily, not for first year scouts, bring orienteering compass

RODNEY Comments: All materials provided

Requirements: None



Photography

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Not for first year scout, film and developing \$10 to \$15

RODNEY Comments: Personal digital cameras are encouraged to be used

Requirements: None



Pioneering

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: 2 hours daily, not for first year scouts, practice knots, splices and lashings

RODNEY Comments: may be physically demanding, be familiar with the 7 basic knots

Requirements: None



Pottery

Prerequisite: **RODNEY** (none)

RODNEY Comments: all materials provided

Requirements: None



Public Speaking

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN&RODNEY Comments:

Requirements: None



Reptile and Amphibian Study

Prerequisite: **GOSHEN** (8) **RODNEY** (8)

GOSHEN Comments: Average Difficulty

RODNEY Comments: Will handle live animals, including snakes!

Requirements:

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

Prerequisite: **GOSHEN** (none) **RODNEY** (1f)

GOSHEN Comments: Requires 2 hours a day, previous experience helpful

RODNEY Comments: Difficult MB to complete. Minimum score req. for completion. Free shoot time may be needed to finish.

Requirements:

1. f. Obtain a copy of the hunting laws for your state. Explain the main points of hunting laws in your state and give any special laws on the use of guns or ammunition.



Rowing

Prerequisite: **GOSHEN** (none) **RODNEY** (1, 2)

GOSHEN Comments: Physical strength needed, good for older scouts, pass swimmer test on first day, review knots

RODNEY Comments: pass swimmer test on first day, boat shoes needed, no aqua socks

Requirements:

2. Show that you know first aid for and how to prevent injuries or illnesses that could occur while rowing, including cold and heat reactions, dehydration, contusions, lacerations, and blisters
3. Do the following:
 - a. Identify the conditions that must exist before performing CPR on a person. Explain how such conditions are recognized.
 - b. Demonstrate proper technique for performing CPR **using a training device approved by your counselor.**



Sculpture

Prerequisite: **GOSHEN** (none)

GOSHEN Comments:



Signaller*only in 2010*

Prerequisite: RODNEY (none)

RODNEY Comments: Difficult merit badge to complete. Timed messaging required for completion.



Shotgun Shooting

Prerequisite: **GOSHEN** (none) **RODNEY** (1f)

GOSHEN Comments: Requires 2 hours a day, previous experience helpful, Cost \$25 to \$40

RODNEY Comments: Difficult merit badge to complete. Minimum score required for completion. Free shoot time may be needed to finish.

Requirements:

1. f. Successfully complete a state hunter education course, or obtain a copy of the hunting laws for your state, then do the following.
 1. Explain the main points of hunting laws in your state and give any special laws on the use of guns and ammunition, and
 2. List the kinds of wildlife that can be legally hunted in your state.



Small Boat Sailing

Prerequisite: **GOSHEN** (none) **RODNEY** (1)

GOSHEN Comments: Older scout at least 13 years old, limited class size, pass swimmer test on first day, review knots, previous experience helpful

RODNEY Comments: DOUBLE PERIOD CLASS. MUST pass swim test. Boat shoes, no aqua socks

Requirements:

1. Do the following:
 - a. Explain first aid for injuries or illnesses that could occur while small-boat sailing, including hypothermia, dehydration, heat reactions, motion sickness, cuts, scratches, abrasions, contusions, puncture wounds, and blisters.
 - b. Identify the conditions that must exist before performing CPR on a person, and explain how to recognize such conditions. Demonstrate proper technique for performing CPR using a training device approved by your counselor.



Soil and Water Conservation

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Time consuming, good for older scouts

RODNEY Comments: Good preparation for Environmental Science MB

Requirements: None



Space Exploration

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Cost about \$10 to \$15

RODNEY Comments: All materials provided

Requirements: None



Swimming

Prerequisite: **GOSHEN** (none) **RODNEY** (1, 2)

GOSHEN Comments: Part of first year program, pass swimmer test on first day, long sleeve button down shirt and long pants required.

RODNEY Comments: bring long pants and long sleeve shirt for inflation, must be a swimmer before starting program and have strong, proper strokes, Included in Brownsea Program

Requirements:

1. Discuss the prevention and treatment for health concerns that could occur while swimming, including [hypothermia](#), [dehydration](#), [sunburn](#), [heat exhaustion](#), [heatstroke](#), [muscle cramps](#), [hyperventilation](#), [spinal injury](#), [stings](#) and [bites](#), and [cuts and scrapes](#). Do the following:
2. Do the following:
 - a. Identify the conditions that must exist before performing CPR on a person. Explain how to recognize such conditions.
 - b. Demonstrate proper technique for performing CPR using a training device approved by your counselor.



Textile

Prerequisite: **GOSHEN** (none)

GOSHEN Comments: good for any Scout

Requirements: None



Theater

Prerequisite: **GOSHEN** (1)

GOSHEN Comments: Not for first year scouts

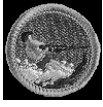
Requirements: See or read three full-length plays or scripts. These can be from the stage, movies, or television. Write a review of each. Comment on the story, acting, and staging



Tracking *only in 2010*

Prerequisite: **RODNEY**(none)

RODNEY Comments: Nature MB recommended. Personal digital cameras are encouraged to be used.



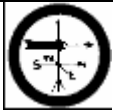
Water Sports

Prerequisite: **RODNEY** (1, 2)

RODNEY Comments: MUST pass swim test. Boat shoes needed – no aqua socks. Requires practice and is physically demanding

Requirements:

1. Show that you know first aid for injuries or illnesses that could occur while participating in water sports, including hypothermia, heat exhaustion, heatstroke, dehydration, sunburn, minor cuts and blisters.
2. Do the following:
 - A. Identify the conditions that must exist before performing CPR on a person. Explain how such conditions are recognized.
 - B. Demonstrate proper technique for performing CPR using a training device approved by your counselor.



Weather

Prerequisite: **GOSHEN** (none) **RODNEY** (none)

GOSHEN Comments: Older scouts

RODNEY Comments: Older scouts



Wilderness Survival

Prerequisite: **GOSHEN** (none) **RODNEY** (5)

GOSHEN Comments: Overnight trip, good for older scouts

RODNEY Comments: canteen, small pack, and hiking boots, overnight outpost required

Requirements:

5. Make up a personal survival kit and be able to explain how each item in it is useful.



Woodcarving

Prerequisite: **GOSHEN** (2a) **RODNEY** (2a)

GOSHEN Comments: Good for older scouts, about \$5 to \$10

RODNEY Comments: All materials are provided. Must have Totin Chip Card

Requirements:

2. Do the following:
 - a. Earn the Totin' Chip recognition.
 - b. Discuss with your merit badge counselor your understanding of the Safety Checklist for Carving.