



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

ACADEMICS

1. Do ONE of the following:
 - a. Maintain a 3.0 grade point average or B average for one semester.
 - b. Improve your grade point average by .5.
2. Interview a teacher at your school. Write a brief report of your findings using the following interview questions:
 - a. Who motivated you to become a teacher?
 - b. What types of classes did you have to take to specialize in your area of teaching?
 - c. What school did you go to and why did you choose that school?
 - d. Who was your favorite teacher and why?
 - e. What do you do to continue your education?
3. Join a school club or any other extracurricular activity for one semester.
4. Obtain a letter from a teacher stating the above average quality of your contribution to the classroom and to your school.
5. Write a 300-word essay on "The Importance of an Education."



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ADVANCED DISABILITY AWARENESS

1. Visit a facility that serves the needs of people with physical impairments, developmental impairments, or other disabilities. Write a 200-word report about the things you learned and the people you met during your visit.
2. Complete an accessibility survey of your local church building. Write a 100-word report of your findings. Some questions that might help guide you in writing your report are as follows:
 - a. Are wheelchair ramps available wherever there are steps?
 - b. Are handrails present wherever there are steps, ramps, or rest rooms?
 - c. Are any provisions (such as sign language interpreters) made for people with deafness?
 - d. Are rest room facilities accessible to those who use wheelchairs?
 - e. Are drinking fountains designed so that those who use wheelchairs can make full use of them?
 - f. Are other conditions present that would help or hinder the use of your church building by a person with a disability?
3. Explain, in writing, the meaning of "accessibility."
4. Read the Assemblies of God position paper Ministry to People With Disabilities: A Biblical Perspective (GPH order #34-4194). (The text of the paper is also available online at the Assemblies of God web site; search the term "disability.") Print or include a copy in your workbook.
5. Demonstrate the sign language alphabet and the numbers 1-10 from memory.
6. Complete any TWO of the following awareness activities and write a 200-word report on your experiences, including ways you compensated for your disability, your personal feelings during the activities, etc.
 - a. Spend at least four hours blindfolded. Go about the normal activities of your day without your sense of sight.
 - b. Spend at least four hours wearing earplugs. Go about the normal activities of your day without your sense of hearing.
 - c. Spend at least four hours in a wheelchair. You cannot use your legs.
 - d. Spend at least four hours trying to communicate with others without the use of speech. You may use sign language, pantomime, or other adapted forms of communication.
7. Explain, in writing, the meaning of "developmental disability."
8. Give three Scripture references concerning people with disabilities.



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ADVANCED MARKSMANSHIP

Notes: Prior to beginning this merit, you must complete the Firearm Safety Merit. Any Discovery Ranger taking this course must ALSO have earned the Marksmanship Merit.

1. Successfully complete the Royal Rangers Advanced Marksmanship course or another approved Daisy Shooting Education course, such as Jaycees, 4-H, etc.



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AIR RIFLE

Note: Prior to beginning this merit, you must complete the Firearm Safety Merit and the Advanced Marksmanship Merit.

1. Range set-up
 - a. Gun: Any sporter air rifle 7.5 pounds or less may be used.
 - b. Ammunition: Caliber .177 skirted pellets.
 - c. Target options: Either AR-5 or TQ-18 targets may be used.
Note on targets: The first part of the identifying code indicates the type of target. The last part indicates how many bulls-eyes are on the target. For instance, in AR-5/10, "AR-5" indicates that the target is intended for an air gun at 10 meters, and "10" indicates there are 10 bulls-eyes on the target.
 - d. Distance: 10 meters (approximately 33 feet). Measure exact distance and mark shooting line and target line.
 - e. Rules: NRA Sporter Air Rifle Rules apply.
 - f. Position: Any (prone, kneeling, or standing). The Advanced Marksmanship course material gives a description of the guidelines for all of the positions.
 - g. Course of fire: Ten bulls-eyes (targets) must be fired. Each bulls-eye must contain 5 shots and the total score for the 5 shots must meet or exceed the required score of 25. The bulls-eyes do not have to be fired consecutively or in the same session. (Option: The number of shots per bulls-eye may be reduced if scoring becomes difficult. Example: 3 shots on one bulls-eye and 2 shots on another.)
2. Score: Minimum score of 25 points on each of ten targets.
3. Research: Either by a home, school, or library computer sign on to the USA Shooting web site. Answer the following questions:
 - a. When did the air rifle become an Olympic event?
 - b. What position is used?
 - c. What distance is the target?
 - d. What size is the 10 ring in the bulls-eye?



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AMATEUR RADIO

1. Explain in writing the answers to the following questions:
 - a. What does it take to get started in ham radio operation and what beginning license do you need?
 - b. What is the FCC and what is its purpose?
 - c. What amateur radio licenses are available and what privileges are yours after obtaining such a license?
2. Qualify for any class of amateur radio license by the proper government agency. Then, do the following activities:
 - a. Carry on at least five fifteen-minute conversations with other ham radio operators. Submit at least five QSL cards as evidence of contact with other amateur radio operators.
 - b. Participate in, or listen for, procedures used in emergency situations. Write out the things you learned.
 - c. Observe signal strengths during different parts of the day. Define "sunspots" and tell how they aid or hamper transmitting and receiving signals.
3. Explain in writing how amateur radio operators prepare to handle emergency messages and transmissions during floods, tornadoes, hurricanes, earthquakes, forest fires, motorist accidents, chemical spills, search and rescues, or similar disasters. List and cite what government rules and FCC codes say about such transmissions.
4. Write a 200-word report on the origin of the term "ham radio."
5. List at least three kinds of receivers/transmitters. Answer the following questions.
 - a. At what frequencies and bands do they operate?
 - b. How much power output do they have?
 - c. Which receiver/transmitter would best suit your needs?
 - d. What reason do you have for choosing that model?
 - e. Ask a ham radio operator what he or she thinks about your choice.
6. Name the two basic radiation patterns for antenna. What are their characteristics? List at least one type of antenna for each radiation pattern. List the advantages and disadvantages of each.
7. Interview a ham radio operator. Ask the following questions.
 - a. When did you get started?
 - b. What do you like about amateur radio?
 - c. How has it helped you in life?
 - d. How has it helped others?



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AMERICAN HISTORY

Note: This merit may be completed by earning at least a grade of B for one semester of junior high or high school American history or civics OR by completing the following requirements:

1. Develop an American history timeline chart using ONE of the following items:
 - a. Inventions
 - b. Presidents
 - c. United States military
 - d. Expansionism
 - e. Statehood
 - f. Famous persons in history
 - g. Industry
2. Keep a journal for one month describing your day-to-day activities. Also include events occurring locally, in your state, and nationally. Show the journal to your group leader.
3. List a famous American from a minority group.
 - a. List the time period that this famous person lived.
 - b. Write a 500-word report about this famous American and submit it to your group leader.
4. Do the following:
 - a. Read a book about some historical event or person in American history.
 - b. Write a 200-word report about this event or person and submit it to your group leader. It cannot be the same person as studied in Requirement 3.
5. Visit a national historic site in your local area that is listed in the National Register of Historic Places or visit a state historical site if there is no national historic site in your area.
 - a. Write a 200-word report on what you saw and learned at this historic site and submit it to your group leader. Identify whether it is a national or state historic site.
 - b. Make a list of other historic sites (national or state) that are in your area.
6. Do the following:
 - a. Draw a map of your state.
 - b. On this map, mark any major historical events that occurred in your state, including the location and dates of these events. Submit this map to your group leader.
7. Choose ONE of the following items. Describe in writing its origin, its official government acceptance, and whether or not changes have been made to it since its acceptance by the government.
 - a. The United States flag
 - b. The Pledge of Allegiance
 - c. The National Anthem ("The Star Spangled Banner")
8. Share with your group a factual story from American history.
9. Contact an older person in your church or community and have this person describe one or more historical events that have occurred during his or her lifetime. Write a report of this interview and submit it to your group leader.



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10. Make a list of names, addresses, telephone numbers and/or web site addresses of your county and state historical societies, and of the National Archives.
11. Write a brief description of the period of time in American history that your district chapter of the Frontiersmen Camping Fellowship is portraying.
12. Do the following:
 - a. List the country the early Americans fought in the Revolutionary War.
 - b. Write a brief description of why this war occurred.
 - c. List what country supported the Americans in this war.
13. Do the following:
 - a. List the groups of Americans who fought in the Civil War.
 - b. Write a brief description of why this war occurred.



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ARCHERY

1. Write a 300-word essay on the history of archery.
2. List and demonstrate the twelve safety rules for archery.
3. Define the following terms: anchor point, arm guard, bow arm, bow weight, bowyer, brace height, cast, deflexed bow, draw, draw length, end, finger tab, glove, longbow, matched arrow, quiver, recurve bow, reflexed bow, release, round, tiller.
4. List and describe at least three types of arrows.
5. List and describe three types of bows.
6. Name and locate the major parts of an arrow, bow, and string.
7. Explain and demonstrate the proper way to store and care for a bow, arrows, and a bowstring.
8. List three Scripture references on archery.
9. Demonstrate how to properly string a bow.
10. Demonstrate how to use an arm guard, shooting glove or finger tab, and a quiver.
11. List and demonstrate the techniques for good shooting.
12. Shoot and score on any nationally recognized round.
 - a. Scoring—Discovery Rangers
The NFAA required round for boys in this age level is at a distance of 10 yards with a 35 cm target. A boy would have 8 units of 4 arrows each in a round. This would give the boy 32 shots at this distance to score on a 35 cm target. The target should be the NFF-35. The center black area is scored as 5. The middle white ring is scored as 4 and the outer black ring is scored as 3. Any arrow shot into any of the score zones from the proper distance of 10 yards is considered a score and fulfills the scoring part of this merit. This does not need to be completed in a NFAA tournament.
 - b. Scoring—Adventure Rangers
Score on the 35 cm target in the same manner as the Discovery Rangers to get a score. However, this must be done from 15 yards instead of 10 yards.



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AVIATION

Note: This merit may be earned by successfully completing a private pilot ground school course (solo flight not required) OR by completing the following requirements:

1. Read a book on aviation.
2. Identify from a video presentation, photographs, or actual in-flight observations at least seven types of aircraft, using their proper names.
3. Make a sketch of an airfoil and explain the principle that produces lift.
4. Using a model airplane, explain the effect of drag, lift, thrust, weight, and gravity on an airplane in flight.
5. Make a list of ten major working parts of an airplane and explain the purpose of each. Make a profile drawing of an airplane and show the position of each part.
6. Explain the difference between these types of aircraft engine: piston, jet, and rocket.
7. Explain the purpose and importance of the following instruments on an instrument panel: compass, oil pressure gauge, attitude indicator, altimeter, bank and turn indicator, airspeed indicator, tachometer, and temperature gauge.
8. Explain in detail the proper procedure for each of the following: takeoff, banking and turning, and landing.
9. Do TWO of the following:
 - a. Visit an airport and make a list of five types of equipment and facilities used.
 - b. Take a flight in any aircraft. Provide information about your flight such as the type of aircraft, the origin and destination of the flight, and your observations during the flight.
 - c. Build and fly a fuel-powered model airplane.
10. List at least ten different job opportunities in aviation. Choose one career and describe the job qualifications for the job, and the approximate salary range.



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BACKPACKING

1. Point out the advantages and disadvantages of two types of boots available for hiking.
2. Explain how to select a boot that fits properly.
3. Explain the proper care and waterproofing of a pair of hiking boots.
4. Explain the prevention of, and first aid for, blisters.
5. Explain how to choose a campsite. Discuss the following topics:
 - a. Environmental concerns, such as choosing a well-used site versus one showing little use.
 - b. Temperature variations in different topographical features and elevations, such as valleys versus mountaintops.
 - c. Considerations of wind and storm direction that can affect your choice of a campsite.
 - d. Determine if it is necessary to camp by a water source or if it is more a matter of convenience. List the possible dangers you should consider.
6. List the possible dangerous plants, insects, snakes, and other animals you may encounter while hiking. Explain what you should do if these dangers are encountered. In the field, identify one of these dangers.
7. Explain the danger of dehydration.
8. Explain two ways to purify water and why purification is necessary.
9. Explain the difference between at least two major types of packs used in backpacking. Explain the advantages and disadvantages of each. Explain why you chose the pack you did. Would you choose a different pack if you could afford it? If so, what kind and why?
10. Properly load your backpack for an overnight backpacking trip. Load your own gear and your share of the patrol equipment and food. Point out where heavy items should go and identify the items placed on top or placed for easy access while on the trail.
11. Explain the different ways that trails are marked, and how painted markers can warn you of a sharp turn in the trail. Define "cairn."
12. Plan and take a two-day backpacking trip under adult supervision. Leave a trip plan with someone at home. The trip plan should include the following:
 - a. A detailed plan of your trip, including the names of the trails you plan to use, where you will get water, the names of the places you plan to sleep, and landmarks.
 - b. Alternate or escape plans in case the trip does not go as intended.
 - c. Mileage and altitude to be covered each day.
 - d. Where help can be found or obtained in case of an emergency. This should include phones, hospitals, and other places where help can be found.



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BASEBALL

1. Read a rule book on baseball.
2. Read a book about the history of baseball and write the answers to the following questions:
 - a. Who was the person that first formalized the rules of play in the United States?
 - b. What was the name of the first organized baseball league in the United States?
 - c. List five other things about the history of baseball that you did not know before reading the book.
3. Draw a diagram of a baseball diamond and identify each area on the field.
4. Do the following:
 - a. Write down each position and its responsibility to the team.
 - b. Write a brief description of what position you like to play and why.
5. Earn a letter or a certificate of participation for baseball (junior high, high school, city, or an organized club), as a player, manager, or umpire.
6. Write a 300-word essay on how playing baseball has personally benefited your life.
7. Interview a coach (preferably Christian) regarding the following items. Include the notes of your interview.
 - a. A winning attitude
 - b. Building character
 - c. Setting a good example and being a good role model
 - d. Physical fitness
 - e. Preparation for the future



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BASKETBALL

1. Read a basketball rulebook.
2. Read a book about the origin of basketball. List ten things about the history of basketball that you did not know before reading the book.
3. Draw a diagram of a basketball court and identify each area of the court.
4. Explain the following concerning basketball rules and infractions:
 - a. Name five technical fouls that a player can commit.
 - b. Name five infractions that a player can commit.
 - c. Name five fouls that a player can commit.
 - d. Tell what happens when a violation is committed.
 - e. Tell what happens when a foul is committed.
5. Explain the roles of a player on offense and defense.
6. Write a 300-word essay on how playing basketball has personally benefited your life.
7. Earn a letter or a certificate of participation for basketball (junior high, high school, city, or an organized club), as a player, manager, or referee.
8. Name your favorite Hall of Fame player and explain how a player gets inducted into the Hall of Fame.
9. Interview a basketball coach (preferably Christian) about the following items. Include the notes of your interview.
 - a. A winning attitude
 - b. Building character
 - c. Setting a good example and being a good role model
 - d. Physical fitness
 - e. Preparation for the future



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BB GUN

Note: Prior to beginning this merit, you must complete the Advanced Marksmanship Merit.

1. Range set-up
 - a. Gun: Only a smoothbore, spring type air gun may be used.
 - b. Ammunition: Lead or steel balls.
 - c. Target options: Either AR-4 or TQ-40 targets may be used.
 - d. Distance: 5 meters (approximately 16.5 feet).
 - e. Rules: NRA 5-Meter BB Gun Rules apply.
 - f. Position: Any (prone, sitting, kneeling, or standing).
 - g. Course of fire: Each position requires 10 bulls-eyes (targets) to be fired. Each bulls-eye must contain 5 shots and the total score for the 5 shots must meet or exceed the required score shown on the scoring chart. The bulls-eyes do not have to be fired consecutively or in the same session. (Option: The number of shots per bulls-eye may be reduced if scoring becomes difficult. Example: 3 shots on one bulls-eye and 2 shots on another.)
2. Scoring

Shoot the following scores by position:

 - Prone—minimum score of 35 on each of 10 targets
 - Sitting—minimum score of 30 on each of 10 targets
 - Kneeling—minimum score of 30 on each of 10 targets
 - Standing—minimum score of 25 on each of 10 targets
3. Research: Either by a home, school, or library computer sign on to the USA Shooting web site and answer the following questions:
 - a. What is USA Shooting?
 - b. List some of the responsibilities of the USA Shooting organization.
 - c. When was it organized?
 - d. Where is it headquartered?



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BIBLE QUIZ

Note: This award is designed to reward a Royal Ranger for knowledge of the Word and for performance in actual Bible Quiz competition.

1. Compete on a Novice level or higher team.
2. Score a minimum of 750 career points in Bible Quiz during matches of league or higher quizzing.
3. Quiz out by answering the maximum number of questions allowed per match at least three times in your Bible Quiz career.
4. Memorize at least one-third of the designated study material for a quiz year.



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BUGLING

1. Write a 200-word essay on the origin and history of bugling.
2. Explain how to care for, clean, and maintain a bugle.
3. Explain why a bugle was used as a call to forces in the field.
4. Using a bugle, cornet, or trumpet, sound off at least ten of the fifteen bugle calls listed below. Explain the purpose of each call that is listed.
 - a. First Call
 - b. Reveille
 - c. Mess
 - d. To the Color
 - e. Drill
 - f. Officers
 - g. Assembly
 - h. Recall
 - i. Fatigue
 - j. Church
 - k. Fire
 - l. Swimming
 - m. Retreat
 - n. Call to Quarters
 - o. Taps
5. Serve as the camp bugler for at least two camp-outs.
6. Explain the origin of the song "Taps" and recite from memory at least two verses of the version you found. State where you found the verses.



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CANOEING

Note: Prior to beginning this merit, you must complete the Swimming Merit.

1. Name and locate the major parts of a canoe and paddle.
2. Demonstrate the proper procedure for carrying, launching, and getting into a canoe from a dock or shore. Then show how to land and exit at a dock or shore.
3. In deep water, wearing a PFD (personal flotation device), demonstrate how to safely jump out of a canoe and then get back in without assistance.
4. List and explain the points of the American Whitewater Affiliation Safety Code or its equivalent.
5. Demonstrate your ability to paddle a canoe in a straight line for at least one hundred feet and then backstroke in a straight line for at least fifty feet.
6. Demonstrate the proper form for the following canoe strokes and maneuvers:
 - a. Forward stroke
 - b. Backstroke
 - c. Draw and push-away strokes
 - d. Forward and reverse sweeps
 - e. "J" stroke
 - f. Turn and pivot
7. Demonstrate how to safely change places in a canoe while afloat.
8. Demonstrate how to swamp a canoe. Then get in and paddle at least one hundred feet to shore and empty it in shallow water.
9. In deep water, demonstrate how to empty a swamped canoe using the "canoe-over-canoe" rescue.
10. Explain the difference between flat water, moving water, and whitewater canoeing.
11. Demonstrate the proper method for rescuing a swimmer with a canoe.
12. List the safety equipment needed for canoeing on moving water and explain the purpose and use of each item.
13. Explain the levels of the "International Scale of River Difficulty" and the conditions that define each level.
14. Explain how to read a river, both from shore and while afloat. Describe and explain the causes and hazards of the following river conditions:
 - a. Upstream V and downstream V
 - b. Haystacks
 - c. Shoals
 - d. Broken drops



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- e. Sheer drops
- f. Eddies
- g. Whirlpools

Demonstrate your ability to read and navigate a river during a canoe trip.

15. Discuss the general care, maintenance, and storage of canoes and equipment.
16. Define the meanings of "portaging" and "lining" a canoe.
17. Prepare a list of the clothing and equipment needed on an overnight canoe camping trip. Assume you will be floating to your campsite and must carry all necessary equipment in your canoe. Explain why each item is needed and the major things you considered in your decision to include it. Properly load and secure this equipment into a canoe.
18. Complete at least ten hours of canoeing during one or more canoe trips. These hours must include at least one trip of four hours or more. The preferred experience should be in flat water.



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CARPENTRY

1. Do any THREE of the following:
 - a. Build two sawhorses.
 - b. Build a storage box for personal items or for FCF items.
 - c. List the names of five types of hardwoods and five types of softwoods. Identify the purposes each is suited for.
 - d. Build a birdhouse or a doghouse.
 - e. Identify and display five types of nails and five other attaching devices. Identify the purpose each device is suited for.
 - f. Make a toolbox.
 - g. Make some type of furniture item.
2. Read two books on basic carpentry. Write the titles and authors from the books you have read.
3. Name and identify ten woodworking tools.
4. List the safety rules for using woodworking tools.
5. Describe how to properly store hand tools.
6. Properly sharpen a saw, a chisel, or a plane.
7. Identify three Scripture verses relating to carpentry.



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CHURCH HISTORY

1. Write a report, 3-4 pages long, on the history of your denomination. Include the following:
 - a. When was it organized?
 - b. Who were its founders?
 - c. What was its mission statement or purpose for organizing?
 - d. Where was the location of its first headquarters?
 - e. What landmark events are a special part of the group's history?
2. Demonstrate your knowledge of your denomination by answering the following questions asked by your commander:
 - a. Give the approximate number of churches in your denomination today.
 - b. Give the estimated national Sunday school attendance.
3. Explain the importance of a national church organization.
4. Explain how your national church organization is financed.
5. Explain the purpose of each department in your national church organization:
 - a. What is the purpose of men's ministry?
 - b. What is the purpose of missions?
 - c. What is the purpose of women's ministry?
 - d. What is the purpose of children's ministry?
 - e. What is the purpose of youth ministry?
6. Read a copy of the statement of fundamental truths from your denomination. For Assemblies of God churches read the Assemblies of God Our Church Heritage packet (GPH order #72-9006) or the Statement of Fundamental Truths (GPH order #34-4136). Then answer any ten questions by your commander about the material.
7. Spend at least ten hours promoting your church in visitation, rallies, outreach, etc.
8. Become a junior or youth-status member, if possible, of your church.



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COMPUTERS

1. Browse the Internet or visit a computer store. Document computer systems and computer parts prices and compare the cost of buying the parts versus buying a complete computer system.
2. Do TWO of these:
 - a. Scan a picture, frame it, and present it to your commander.
 - b. Create a spreadsheet to itemize a camp-out food budget or use a word processor or graphics publication program to make an invitation to an awards ceremony.
 - c. Send an e-mail with an attachment.
 - d. Discuss Internet safety with your commander, and either write a 250-word essay on pirating software or research three filtering programs and describe the price and features of each.
3. Search for three foreign Royal Rangers outposts. Complete an information sheet on each by getting the information from its web page or sending an e-mail.
4. Do any TWO of the following:
 - a. From the Internet, document current salary ranges for specific computer jobs.
 - b. Visit a business and interview one person who works with the computers and invite him or her to speak to your group.
 - c. Visit a college computer science department and interview a professor or student for their degree requirements.
5. Create a newsletter for your church or your outpost.
6. Create a monthly or yearly calendar for your outpost.



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CONVOY OF HOPE

Note: Visit the Convoy of Hope web site to help you fulfill the requirements of this merit.

1. Answer the following questions about Convoy of Hope:
 - a. When was it created?
 - b. Why was it created?
 - c. What types of outreaches and projects is Convoy of Hope involved in? Name at least four.
 - d. How can individuals partner with Convoy of Hope?
2. Be a volunteer worker at a Convoy of Hope event (for a minimum of 6 hours). These hours cannot be applied to the Bronze and Silver Christian Service hour requirement.
3. Write a three-page report on the Convoy of Hope event that you assisted as a worker.
4. Give three Scripture verses that refer to missions.



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CRIME PREVENTION

1. Do the following:
 - a. Define "crime" and "crime prevention."
 - b. Find three Scripture verses that talk about crime and crime prevention.
2. Tell what types of crimes are committed in your community. Make a four-page notebook with newspaper clippings telling about crimes in your community.
3. Write a 300-word report and include answers to the following questions:
 - a. Why are there laws and what role do they play in society? What are God's laws and what role should they play in our society?
 - b. What role does law enforcement play in crime prevention?
 - c. What role do all citizens including Royal Rangers play in crime prevention?
 - d. When should a crime be reported? How is a crime reported?
4. Answer in writing the following questions on the impact of crime:
 - a. How does crime affect prices paid for items in a store?
 - b. What is the impact of crime/vandalism on a school? (Talk to your principal or teacher.)
 - c. What is the impact of gangs on a community? How do their activities impact a community?
 - d. What impact does crime have on an individual that commits a crime? What are the consequences?
 - e. How does the illegal sale and use of drugs lead to other crimes?
5. Define "white-collar" crime and tell what effects it has on all of us.
6. Define "child abuse" and tell how to recognize it.
7. Determine if your community and home are safe from criminal activity. Do the following:
 - a. Conduct a crime prevention survey in your community and share the results with your commander.
 - b. Tell what a neighborhood or community can do to lower the crime rate.
 - c. Conduct a security survey of your home and discuss the results with your family.
 - d. Tell how you can protect your family, your friends, and yourself from becoming victims of crime.
8. Explain what can be done to help individuals who have been involved in or victimized by criminal activity.
 - a. Interview a chaplain from a detention facility or a jail. Report your findings.
 - b. Define Teen Challenge and explain its mission. Tell how someone who needs help from Teen Challenge can get that help.
 - c. Explain what a person can do if they have been a victim of violent crime. Explain how you can help that person.



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DUTCH OVEN COOKING

Note: Prior to beginning this merit, you must complete the Cooking Merit.

1. Write a 100-word essay on the history of cast-iron and Dutch oven cookware.
2. Write a brief description of the differences between a camp Dutch oven and a kitchen Dutch oven.
3. Identify the various cooking accessories useful for Dutch oven cooking and explain their uses.
4. Explain and demonstrate how to clean and care for a Dutch oven.
5. List at least five safe food-handling practices.
6. Identify the number of coals needed to obtain various cooking temperatures.
7. Explain in writing how to properly season a Dutch oven.
8. Prepare a booklet containing recipes for three main dishes, three desserts, and five side dishes.
9. Using Dutch ovens, properly prepare and serve four people a meal containing the following: a main course, two side dishes, and a dessert.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

ENERGY

1. Write a 100-word essay defining the term "energy." In this report explain the following statement: "Energy cannot be created or destroyed."
2. Define the following forms of energy and give one example of each:
 - a. Kinetic energy
 - b. Potential energy
 - c. Chemical energy
 - d. Solar energy
 - e. Heat energy
 - f. Atomic energy
3. Draw an energy diagram of a car. Show the initial sources of energy, the different forms that the energy is converted into, devices used in the conversion process, the form in which energy is released, and the energy wasted. Make sure to include the battery, air conditioning, radio, lamps, starter, alternator, wipers, and pumps.
4. Conduct two energy surveys. One survey must be of your home. The other survey may be one of the following: church, workplace, or school. Include sources of energy, devices using energy, energy waste areas, and recommendations to use energy more wisely and minimize waste. Give a copy of your findings to each facility.
5. Perform an energy conversion demonstration. During the demonstration, explain in your own words the different forms that the energy is converted into.
6. Research the different kinds of energy resources of the world and make a table detailing the advantages and disadvantages of each (cost, pollution, safety, etc.). Make sure to at least include wind, coal, wood, natural gas, petroleum, waterpower, and solar.
7. List the nearest power plant facility to your community, including location, size (in terms of energy produced), date established, a photograph, and any other interesting facts you may find. Research the energy resources used in the United States and the relative proportions of energy supplied by each.
8. Explain what cogeneration means and how it conserves energy.
9. Obtain one article from a current newspaper or magazine about the conservation of energy. Explain how it applies to your life. Explain to a group how saving or wasting electrical energy affects the environment.
10. Develop a plan to save energy for a period of two weeks and keep a detailed record of energy savings.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

FAMILY HISTORY

1. Explain the value of investigating the history of your family and tell what makes your family unique.
2. Identify the oldest living relative in your family with whom you can make contact. Formally arrange for an appointment where you can talk to each other in a quiet place without interruptions. Let them choose the place, so that they will be comfortable and have plenty of time to talk.
3. Decide the purpose of your interview. Focus on at least one of the following:
 - a. The lineage of your family.
 - b. His or her childhood memories.
 - c. How technology has changed in his or her lifetime.
 - d. A country from which he or she might have emigrated.
 - e. His or her participation in the major events of the previous century such as wars, social change, or technological advances.
 - f. His or her role in the founding, growth, or development of your local church, including his or her personal testimony.
 - g. Favorite objects such as scrapbooks, photo albums, keepsakes, memorabilia, or family heirlooms.
4. Write a list of 6-10 questions in advance of the interview. Write more questions than you think you will need just in case you run out of things to say. Avoid yes or no questions. Let the interviewee feel free to elaborate or change the subject as desired.
5. Describe the method you will use to record the responses of the interviewee, such as written notes, tape recorder, or videotape.
6. Conduct the interview with that person. This interview may be conducted in person, or by telephone, letter, or e-mail.
7. Conduct follow-up interviews, if necessary, to make corrections to information gathered.
8. Publish a report on your findings in ONE of the following formats:
 - a. A family web page or report from a genealogy program
 - b. A typed report including copies of pictures and resources used
 - c. A video report including film footage, stills, titles, and narration

The report must include the following:

- a. Explain the meaning of genealogy and genealogical resources.
- b. Diagram a family tree tracing your ancestry at least to your great-grandfather and great-grandmother on at least one side of your family. If possible, include dates of birth and death, nationality, and occupation.
- c. Obtain at least one genealogical document showing proof of some information on your family tree diagram or family group records. This document may be located in your home, a courthouse, an archive, a library, etc.



Royal Rangers

Merit Requirements: Green-Bordered Merit

- d. Write a 200-word history of yourself or of a close relative.
- e. Contact ONE of the following and ask a question relating to its genealogical services or activities, and report the results.
 - i) A lineage society
 - ii) A surname organization
 - iii) A professional genealogist
 - iv) A genealogical education facility or institution
 - v) A genealogical record repository of any type (courthouse, genealogical library, state archives, state library, national archives, etc.)
 - vi) A genealogical web site or computer database
 - vii) Genealogical software
9. Write a letter to formally thank the interviewee for his or her time.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

FIRE SAFETY

1. Answer the following questions in writing.
 - a. Explain the chemistry and physics of fire.
 - b. Draw a "fire triangle." Point out each of the parts needed in order to have oxidation. Define "oxidation" and "combustion."
 - c. Define "ignition point" or "kindling point."
 - d. Define "flash point."
 - e. When either combustible liquids or materials are burning, what really is burning?
 - f. What is spontaneous combustion?
2. Draw a floor plan of your home including all windows and doors. Locate two escape routes from each room. Also, mark a designated meeting area outside the home to gather after each person escapes from the home. Post this plan on a bulletin board or in your utility room. Practice a home fire drill using this plan.
3. Complete the Home Fire Safety Survey. Check your home for each of the conditions listed. State why these checks should be made twice a year.
4. Describe in writing at least ten examples of fires occurring in your area started by the following causes. Give at least one example of each.
 - a. Lightning strike
 - b. Arson
 - c. Lack of knowledge
 - d. Poor judgment
 - e. Carelessness
 - f. Mechanical or electrical failureObtain the information from newspaper files or fire department data.
5. During the "Fire Season," there are fire ratings that the state and national forestry departments and local fire departments post daily. List, in writing, the five categories of fire conditions and what they mean.
6. Interview a fire captain or firefighter about the fire fighting profession. Ask about his or her most rewarding and most dangerous fire fighting experiences. Ask what education and specialized training are required for the profession. Write a 300-word report on your interview. Include your own reactions to the interview.
7. Explain, in writing, the following:
 - a. How the "stop, drop, roll, and cool" procedure should be used to extinguish flames and lessen burn injuries if your clothing catches fire.
 - b. How to give first aid treatment for burns and what should not be done.
8. Explain what action should be taken in each of the following situations:
 - a. You open the door of a home and smell gas (gasoline, diesel oil, kerosene, propane, or natural gas).
 - b. You smell smoke or the smoke detector goes off in the middle of the night.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

FOOTBALL

1. Read a rulebook for the game of football.
2. Read a book about the history of football. List ten things about the history of football that you did not know before reading the book.
3. Draw a diagram of an American football field and identify each part.
4. List ten different rules or penalties in football.
5. Earn a letter or a certificate of participation for football (junior high, high school, city, or an organized club), as a player, manager, or referee.
6. Write a 300-word essay on the history of one outstanding Christian football coach.
7. List ten exercises that condition the body for football competition.
8. In writing, explain where the Pro Football Hall of Fame is located and name a football player who is a Hall of Fame member.
9. Write down the differences between offensive and defensive roles.
10. Interview a coach (preferably Christian) regarding the following items. Include the notes of your interview.
 - a. A winning attitude
 - b. Building character
 - c. Setting a good example and being a good role model
 - d. Physical fitness
 - e. Preparation for the future



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

FORESTRY

1. Write a 300-word report describing the contributions forests make to
 - a. Our economy in the form of products
 - b. Soil protection and increased fertility
 - c. Clean water
 - d. Clean air
 - e. Wildlife
 - f. Recreation
2. Diagram and label the parts of a tree.
3. Explain the steps involved in planting and caring for a tree.
4. Explain how to tell the age of a tree. Discuss the possible causes for variations in growth when examining the crosscut section of a stump or log.
5. Explain how trees prevent soil erosion.
6. List ten animals that depend on the forest for their food and shelter. Describe where one of these animals lives and what it eats.
7. Study ten trees or shrubs native to your state (one should be your state tree). Submit a notebook that includes the following for each species:
 - a. A photo or drawing of the tree or shrub
 - b. A sketch of a leaf or branch of the tree or shrub
 - c. A sketch of its seed or an explanation of how the plant reproduces
 - d. A list of the uses of the tree or shrub by mankind or wildlife
8. Do the following:
 - a. Describe the damages to forests that result from
 - i) Wildfire
 - ii) Insects
 - iii) Tree disease
 - iv) Acid rain
 - v) Improper harvest
 - b. Tell what can be done to reduce these damages.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

GARDENING

1. List at least five steps on how to select a garden plot site and prepare the soil for planting.
2. Plant and cultivate six or more kinds of vegetables in a garden plot. Plant at least ten seeds or starter plants of each kind of vegetable.
3. List at least four tools that can be used in home gardening and the care and maintenance of these tools.
4. List several ways of keeping insects, small animals, and disease from harming your garden.
5. Explain when and how you would use insecticides on green, leafy vegetables; root vegetables; and fruit-bearing vegetables.
6. Keep a weekly log of the growth and development of your garden until you harvest the vegetables. Keep records of the cost and of the time it requires for care.
7. Make a list of how you harvested some of your vegetables. Prepare these vegetables. Serve these vegetables for a family meal.
8. Prepare a compost pile using the waste by-products from your vegetable garden and yard.
9. List at least three steps to prepare the soil immediately after the harvest season.
10. List the nutritional value of a leafy vegetable, a root vegetable, and a fruit-bearing vegetable. List how to preserve them for future consumption by canning, storing, freezing, etc.

Green Global Missions Merit

Release Date: April 1, 2009

1. Prepare a five to ten minute presentation on at least ONE of the missions-oriented ministries below. Be as creative as possible, using multimedia and other tools. Ask your pastor (or youth pastor) for permission to present your missions spotlight in a service:
 - a. Royal Rangers International (www.royalrangersinternational.com)
 - b. Speed the Light (www.speedthelight.ag.org)
 - c. Boys and Girls Missionary Challenge (www.bgmc.ag.org)
 - d. Convoy of Hope (www.convoyofhope.org)
 - e. Pathfinders (www.pathfindermissions.org)
 - f. Latin America Child Care (www.latinamericachildcare.org)
 - g. Missions Abroad Placement Service (www.worldmissions.ag.org)
 - h. Ambassadors in Mission (www.aim.ag.org)
 - i. Light for the Lost (www.lfl.ag.org)
 - j. Mission America Placement Service (www.usmaps.ag.org)
2. Participate in TWO district-sponsored missions events, such as a Speed the Light rally, Light for the Lost banquet, Boys and Girls Missionary Challenge service, district-sponsored missions trip, etc.
3. Select a missionary that your church supports and prepare a care package for the missionary and family. Ask your church's missions coordinator or suitable alternate for help. E-mail or write the missionary to ask about personal preferences, special needs, or any specific restrictions on what may be sent. You may choose a missionary serving with Royal Rangers International if your church does not support a missionary.
4. Volunteer for at least three hours at a local support ministry such as a soup kitchen, homeless shelter, or food pantry. Talk about your experience and what you learned in a patrol meeting.
5. Set a Speed the Light/Royal Rangers Christmas Project fund-raising goal with your patrol under the guidance of your Royal Rangers leader and parents. Plan as a patrol how you will raise the funds and achieve this goal.
6. Talk to your family about ways you all can be involved in missions including prayerful consideration of a family faith promise, participation in a missions trip (US or abroad), sending care packages to missionaries, etc.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

HOME REPAIR

Select and complete any TWELVE of the following items.

1. Repair an electric plug on a small electric appliance or lamp.
2. Repair a leaky kitchen or bathroom faucet.
3. Repair the interior fittings of the tank on a flush toilet.
4. Clean out a kitchen or bathroom sink trap.
5. Replace a broken glass windowpane.
6. Prepare and paint a small room.
7. Clean out the rain gutters on a home.
8. Clean out the fireplace in a home.
9. Scrub and wax a tile or linoleum floor in a kitchen or bathroom.
10. Caulk around the outside frame of a window, door, or fireplace.
11. Clean and reinstall the storm windows of a home.
12. Clean and reinstall the window screens of a home.
13. Install tile on a floor.
14. Hang a picture on a wall.
15. Help clean out the garage, attic, storeroom, or basement in a home.
16. Repair a leaky water hose.
17. Adjust or replace a lawn sprinkler head.
18. Repair a piece of damaged furniture.
19. Repair a fence.
20. Repair a tight-fitting interior or exterior door.
21. Help winterize a home.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

HORSEMANSHIP MERIT

1. Name four breeds of horses and write a brief explanation (75 - 100 words) of what each breed is noted for.
2. Demonstrate how to bridle and saddle a horse. Identify the parts of a bridle and saddle.
3. Demonstrate how to properly ride a horse and at a walk and a trot (jog).
4. Show how to properly mount and dismount a horse.
5. Show how to clean, oil, and treat a saddle and bridle.
6. Show how to care for a horse before and after riding.
7. Demonstrate how to care for a horse's feet.
8. Demonstrate how to feed and water a horse.
9. Explain, in writing, six common horse diseases, their symptoms, and their cures.
10. In writing, define "gait" and the four types of gaits.
11. List and diagram the different parts of a horse.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

INDIAN LORE

1. Make and decorate with American Indian designs one of the following articles: a tom-tom, a bow and arrows, a quiver, a lance, a belt, a war bonnet, a totem pole, a knife sheath, moccasins, leggings, shirt, or headdress.
2. Correctly set up a standard-sized teepee (12' or larger) at a Royal Rangers event or FCF function. You may be assisted by no more than two other Royal Rangers.
3. Write a 300-word report on the history of an American Indian tribe that once lived near your hometown or county. Include an explanation of their customs, habits, and daily life.
4. Learn and demonstrate five American Indian games.
5. List the differences between the Pilgrims' settlement in Plymouth, Massachusetts and the English settlement at Jamestown, Virginia. In your own words describe the relationship between the Indians and the European settlers in each settlement.
6. Learn and demonstrate ten signs in American Indian sign language.
7. Describe how American Indians have influenced our culture by listing at least eight things we have adopted from the American Indian culture. Describe the economic and/or social impact of each influence.
8. On a map, locate twenty American Indian place-names (states, cities, rivers, etc.). List the meaning of the name and the American Indian tribe it came from.
9. Collect pictures of five well-known American Indians, living or deceased. Record their name, tribe, date of birth, date of death, and main accomplishments.
10. Learn about the Iroquois Confederacy and its system of government. What influence did it have on the framers of the United States Constitution?



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

KNIFE AND HAWK

1. List and demonstrate ten rules of safety for throwing a knife and hawk.
2. Make a sheath for a hawk.
3. Demonstrate the proper method of sharpening a hawk.
4. Demonstrate the proper method of throwing a knife.
5. Demonstrate the proper method of throwing a hawk.
6. Participate in at least one throwing competition and “stick” the knife three times out of ten.
7. Participate in at least one throwing competition and “stick” the hawk three times out of ten.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

LEATHER CRAFT

1. Read at least ONE book on leather craft.
2. Collect at least FOUR varieties of leather, such as listed below. Display each piece. Explain the characteristics of each type of leather and a use for each type.
 - a. Chamois
 - b. Cowhide
 - c. Calfskin
 - d. Deerskin
 - e. Suede
 - f. Alligator
3. Identify and describe the following tools and their uses:
 - a. Anvil
 - b. Bone folder
 - c. Leather shears
 - d. Mallet
 - e. Rotary cutter
 - f. Rotary hole punch
 - g. Round hole punch
 - h. Skiver
 - i. Snap set tools
 - j. Stitching chisels
 - k. Strap end punch
 - l. Strip and strap cutter
 - m. Swivel knife
 - n. Utility knife
4. Make at least TWO of the leather items listed below. Show the items to your commander.
 - a. Moccasins
 - b. Wallet
 - c. Sheath for a knife
 - d. Belt
 - e. Hat
 - f. Gloves
 - g. Coat
 - h. Leather pants
 - i. Leather shirt
 - j. Any other leather craft item pre-approved by your commander



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

5. Decorate at least ONE of the items made in Requirement 4, by doing one of the following. Show the item(s) to your commander.
 - a. Carving
 - b. Burning
 - c. Stamping
 - d. Tooling
 - e. Painting
 - f. Beading
6. Demonstrate your ability to repair at least ONE damaged leather article. Show the item to your commander.
7. Demonstrate your ability to clean, waterproof, and care for at least ONE leather article. Show the item to your commander.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

ORIENTEERING

Note: Prior to beginning this merit, you must complete the Compass Merit.

1. Define "orienteering."
2. List and locate five major terrain features both on a map and in the field.
3. List and describe ten symbols often found on a topographic map.
4. Obtain a topographic map of your area which includes magnetic declination line information.
5. Demonstrate how to transfer a direction on a map to your compass.
6. Define "control description." Explain how it is used in orienteering.
7. Explain how to use an attack point. Describe the offset technique. Explain what a "collecting feature" is.
8. Participate in three orienteering events. One of these events must be a cross-country course. Write a report about each event.
9. Do ONE of the following:
 - a. Set up a cross-country course of at least three kilometers in length with five control markers. Describe the course.
 - b. Set up a score-orienteering course with twelve points and a time limit of sixty minutes. Describe the course.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

PHOTOGRAPHY

1. List and identify at least ten parts of an SLR camera.
2. Define the following terms:
 - a. Camera body
 - b. Lens
 - c. Aperture
 - d. Shutter
 - e. Viewfinder
 - f. Light meter
 - g. SLR camera
 - h. Mirror
3. Describe and demonstrate the steps in taking a successful photograph.
4. Explain the concept of proper exposure of film, relating film speed, aperture, and shutter speed.
5. Take at least twenty-four photographs. Have the roll of film developed or obtain a printed copy of the digital images. Critique your results. Use any **FOUR** of the following types:
 - a. Snapshot
 - b. Portrait
 - c. Still-life
 - d. Landscape
 - e. Cityscape
 - f. Skyscape
 - g. Documentary
 - h. Creative photography
6. Learn and demonstrate the following:
 - a. Take a digital photo (unless already done for Requirement 5).
 - b. Download a digital photo into a computer.
 - c. Insert the photo into a document and print it or send it by e-mail to a friend.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

PIONEERING

1. Review and demonstrate how to tie the following six basic knots: square knot, clove hitch, bowline, sheepshank, sheet bend, and two half hitches.
2. Review and demonstrate the following lashings: square, round, diagonal, continuous, and shear.
3. Demonstrate how to tie a timber hitch and a rope tackle.
4. Participate in building a one-third scale tower with a group of Royal Rangers.
5. Participate in building a full-scale tower with a group of Royal Rangers. It should not be any higher than eighteen feet and the platform should not be any higher than fourteen feet.
6. Participate in building a full-scale rope bridge with a group of Royal Rangers. The bottom of the rope bridge should not be more than five feet from the ground.
7. With a partner, build an H-frame trestle using square and diagonal lashings.
8. With a partner, build a primitive piece of furniture. Choose one of the following projects:
 - a. Chippewa kitchen
 - b. Camp shower
 - c. Camp bulletin board



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

PLANT SCIENCE

1. Make and use a germination seed tester to test ten seeds each from FOUR of the following plants: corn, cotton, alfalfa, beans, clover, wheat, rice, rye, barley, melon, and tomato. Determine the percent of live seeds.
2. Grow at least eight plants (two each of the four varieties germinated in Requirement 1) for at least five weeks using either a garden or a container. Keep a weekly record of your plants' growth.
3. Propagate at least two plants by either taking cuttings from established plants or grafting parts of two established plants into each other. Grow the plants for at least five weeks using either a garden or a container. Keep a weekly record of your plants' growth.
4. Write a 300-word report on plant science using any or all of the following Scriptures. Matthew 7:15-20; Matthew 13:3-23; Matthew 13:24-30; Luke 6:43-45; Luke 13:6-9; John 12:24; John 15:1-8.
5. Determine the method you would use to control weeds in either a garden or a field of corn and explain it.
6. Choose a crop from your state or region. Write a 250-word report about its importance to the economy of your state or region.
7. Determine the three most common pests you must control in either a garden or in a field of corn. Explain the method you would use to control those pests.
8. Conduct an experiment to determine what nutrients must be in the soil to grow beans. Record your results and write a 100-word report.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

POTTERY

Note: This merit may be earned by completing a pottery, ceramic, or porcelain class in high school for a minimum of one semester and receiving a grade of B or higher, OR completing the following under the guidance of a teacher or instructor:

1. Define the following terms:
 - a. Bisque
 - b. Bone dry
 - c. Casting
 - d. Ceramic
 - e. Clay
 - f. Cleaning tool
 - g. Cone
 - h. Firebrick
 - i. Fired
 - j. Glaze
 - k. Greenware
 - l. Kiln
 - m. Kiln furniture
 - n. Leather dry
 - o. Mold
 - p. Porcelain
 - q. Potter's wheel
 - r. Pottery
 - s. Pouring
 - t. Shrinkage
 - u. Slab
 - v. Slip
 - w. Texture
 - x. Throwing
2. Describe the consistency of clay used in each of the following:
 - a. Clay for potter's wheel
 - b. Ceramic slip
 - c. Porcelain slip
3. Explain how a ceramic is fired using a kiln.
4. Explain how a ceramic is glazed.
5. Make, glaze, and fire ONE of the following (formed by hand without a potter's wheel or mold):
 - a. Flat dish or tray
 - b. Coil bowl or pot
 - c. Two decorative tiles
 - d. Figurine or statue



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

6. Make (or pour) then clean, glaze, and fire one of the following:
 - a. Vase, bowl, or cup from a potter's wheel
 - b. Vase, bowl, or cup from a ceramic mold
 - c. Vase, bowl, or cup from a porcelain mold
7. List at least five examples of ceramics made professionally in the United States.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

PRIMITIVE SHELTERS

1. List at least five purposes for building a primitive shelter.
2. List at least five important factors about the construction of a primitive shelter.
3. List and describe the five components of a primitive shelter.
4. List at least ten materials that can be used to build a primitive shelter.
5. Build one primitive bed, using natural materials. Choose one of the following:
 - a. Bough
 - b. Trapper's bed
 - c. Swamp bed
 - d. Tropical river hut
 - e. Debris bed
6. Build one simple shelter. Choose one of the following:
 - a. Bough
 - b. Natural hollow
 - c. Root shelter
 - d. Heavy tree branch
 - e. Ledge and crevice
 - f. Tree bark or fallen tree trunk
7. Build one complex shelter. Choose one of the following:
 - a. Wickiup
 - b. Lean-to
 - c. Debris hut
 - d. Thatched hut
8. Spend at least one night in a properly constructed primitive shelter.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

PRIMITIVE SNARES

1. Define "deadfall" and "snare." Explain the differences between them.
2. List five animals common in your area which can be snared. For each one:
 - a. Describe the uses for this animal.
 - b. Describe the best way to snare the animal.
 - c. Describe the best bait to use.
 - d. Describe the habits of the animal that make it easy or difficult to snare.
3. Build a deadfall using a figure 4 trigger. Trigger the deadfall with the light touch of a small branch to demonstrate that it will work. Disassemble the deadfall (carefully) after showing your commander.
4. Construct a simple snare from natural materials. Trigger the snare with the light touch of a small branch to demonstrate that it will work. Disassemble the snare after showing your commander.
5. Describe four other common snares. Draw a sketch of each primitive snare.
6. List three Bible verses which talk about snares.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

PUPPETEER

1. Make a puppet with a movable mouth.
2. Demonstrate how to use ONE of the following:
 - a. Shadow puppet
 - b. Hand-and-rod puppet
 - c. Marionette puppet
 - d. Human-arm puppet
 - e. Life-sized puppet
3. Learn the proper manipulation of a hand puppet and demonstrate this by performing a song or a skit with a puppet.
 - a. Synchronize the mouth movements to the words on a tape or a spoken script.
 - b. Demonstrate proper entrances and exits on the puppet stage.
 - c. Demonstrate correct posture and height for a puppet.
 - d. Demonstrate proper puppet eye contact with the audience.
4. Develop a voice that can be used for a puppet and use the voice for a puppet chat during the Sunday School or children's church performance mentioned in Requirements 5 and 6.
5. Perform two solo puppet skits before a group. One solo should be a song and the other solo should be a chat. Choose one of these and perform the solo for a children's Sunday School class, children's church, vacation Bible school, or children's crusade.
6. Perform two group puppet skits before an audience, including one for children's church. (If your church does not have children's church, perform before a younger group of boys or girls with children no younger than three years old.)
7. Draw a diagram of three different puppet stages that could be used in a puppet ministry or help build a stage for a puppet ministry with a group.
8. Write puppet scripts for three Bible stories with a group. Provide Scripture references for each script. Each script should take at least five minutes to act out.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

REPTILE STUDY

1. List the four classifications of reptiles. Give an example of each.
2. Describe the physical features that help make a reptile unique from other animals and how a reptile's heart structure affects its level of activity.
3. Observe a reptile in the wild. Describe the animal's habitat. What would you expect it to eat based on its habitat? Now research the reptile using the Internet, an encyclopedia, or other resource and list what the reptile typically eats.
4. Choose a certain reptile and describe what it needs to survive in these four categories: temperature, humidity, nutrition, and habitat.
5. Explain how warm-blooded and cold-blooded animals are different. Tell if reptiles are warm-blooded or cold-blooded.
6. Learn what laws pertain to the protection, capturing, and killing of reptiles in your area. Name two protected or endangered reptile species found in your area.
7. List at least two reasons and/or benefits to a reptile for shedding its skin.
8. List at least four ways reptiles can be dangerous to the world around them.
9. Explain five ways reptiles can benefit their environment and us.
10. Name the five factors that place any animal species, including those of reptiles, at risk of becoming threatened, endangered, or extinct.
11. Participate in caring for a captive reptile at least once a week for four weeks. (Wild-caught reptiles DO NOT make good pets!) Write a report describing your experiences and what you liked and disliked about this particular animal.
12. Name three of the most common causes of reptile deaths in captivity.
13. Describe four main methods snakes use to move and explain how each method is different.
14. Name two methods snakes use to subdue their prey.
15. List the features that would help you identify a venomous snake. Learn the proper treatment for both a venomous and non-venomous snakebite.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

SALESMANSHIP

1. Read a book on salesmanship or negotiating techniques. Write three brief descriptions, 50-75 words each, of three things you learned from reading the book.
2. Write the definitions to the following business terms:
 - a. Advertising
 - b. Business plans
 - c. Home-based business
 - d. Marketing
 - e. Mission statement
 - f. Sales and distribution channels
 - g. Service business
 - h. Target market
3. Explain the importance of salesmanship training and market analysis in sales.
4. Explain why making a good first impression is so important. List five things you can do to make a good first impression.
5. Describe, in writing, some advantages and disadvantages of believing in your product.
6. Write a paragraph, about 75-100 words, explaining Christian ethics in sales. Discuss the responsibility of the salesman for honestly presenting both the product and the results of his sales, and for customer service after the sale.
7. The six parts of a basic sales technique are as follows. Explain what you should focus on during each part.
 - a. Know the customer's needs.
 - b. Help the customer see your product's benefits.
 - c. Provide a smart solution.
 - d. Don't rush the customer.
 - e. Close the sale.
 - f. Support the customer.
8. Explain what a "closing ratio" is and why it is important to track.
9. Watch a salesman for thirty minutes. Write a 150-200-word report explaining what you thought of his technique. Explain whether you think he was a poor, average, good, or great salesman and why.
10. Give five examples of how everyone sells or uses negotiating techniques every day without being a salesperson. Show how the five parts of a sale were used in ONE of these examples.
11. Research advertising methods. Choose one method of advertising and use it for Requirement 12 (part "a" or "b"). Give a brief description of the method. Record any effect it has on your overall success.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

12. Do ONE of the following projects:

- a. Ask for financial or material support from a business or individual by promoting your Rangers ministry/program to someone so they will donate something useful to your outpost. This may include food for a Royal Rangers outing, materials for a project, expertise in teaching a merit, etc. Your commander must approve of your financial appeal before you begin.
- b. Raise funds for your outpost to help defray the cost of an event or equipment purchase by using sales of a product, tickets to an event, or some other sales activity. Your commander must approve of your financial appeal before you begin.

Note: For either project (“a” or “b”), use the Contact Tracking Form to keep records of all contacts made, their reactions, what happened if you got to see them, and what your closing ratio was. You must have a minimum of five contacts, two of which must be cold calls, and only one of which may be a family member, close friend, or relative.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

SKATEBOARDING

1. Read an article or book on the history of skateboarding. Answer the following questions:
 - a. What two types of materials were used in making skateboard wheels before 1970?
 - b. When and where was the first outdoor skateboard park built?
 - c. Who invented the “ollie” and in what year was it invented?
2. List the four pieces of safety equipment recommended for skateboarding.
3. Write a list of guidelines for good skateboarding safety.
4. List two styles or types of skateboards.
5. Provide a written description of each of the following skateboard terms:
 - a. Board or deck
 - b. Wheels
 - c. Bearings
 - d. Trucks
 - e. Nose
 - f. Rails
 - g. Tail
 - h. Wheelbase
 - i. Fakie
 - j. Grip tape
 - k. Goofy foot
 - l. Ollie
 - m. Grind
 - n. Vert ramp
6. List the three major parts of a skateboard.
7. Identify the parts of a truck using a drawing.
8. Identify the parts of a wheel using a drawing.
9. Explain how riser height, wheel size, and width of trucks affect each other and the total performance of the skateboard.
10. Demonstrate the following maintenance and adjustments on wheels and trucks:
 - a. Check the wheel locknuts for proper tightness.
 - b. Tighten the suspension on the trucks to provide a firmer ride.
 - c. Loosen the suspension on the trucks for carving.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

11. Demonstrate the following skateboarding skills while in motion:
 - a. Straight level ride for twenty feet
 - b. Left turn
 - c. Right turn
 - d. Stop
 - e. 180-degree turn
 - f. Hop-a-curb
 - g. Fakie
 - h. Railslide
 - i. Ollie



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

SOCCER

1. Read a soccer rule book.
2. Read a book on the history of soccer and tell when soccer was introduced to the Olympic Games.
3. Draw a diagram of a soccer field and label all the important parts including the measurements of the playing field, goals, and penalty area in front of the goals.
4. Demonstrate five soccer skills drills.
5. Explain what "offsides" means and explain the difference between a red card and a yellow card.
6. Tell how many players are on the field for each team. List and explain the role of each position in a soccer team.
7. Define the following soccer terms:
 - a. Assist
 - b. Back pass
 - c. Bending the ball
 - d. Chip
 - e. Closing down
 - f. Cross
 - g. Drop kick
 - h. Holding
 - i. Keep your shape
 - j. Mark
 - k. Opening the field
 - l. Save
 - m. Touch line
 - n. Volley
8. Write a 300-word essay about how soccer participation has personally benefited your life.
9. Earn a letter or a certificate of participation for soccer (junior high, high school, city, or an organized club), as a player, team manager, or referee.
10. Interview a soccer coach (preferably Christian) regarding the following items. Include the notes of your interview.
 - a. A winning attitude
 - b. Building character
 - c. Setting a good example and being a good role model
 - d. Physical fitness
 - e. Preparation for the future



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

SPORTS

1. Take part for one full season as a member of an organized team in ONE of the following sports, or any other recognized team sport approved in advance by your commander (except boxing, karate, or a sport covered by an existing merit):
 - a. Bowling
 - b. Cross-country
 - c. Diving
 - d. Fencing
 - e. Field hockey
 - f. Gymnastics
 - g. Ice hockey
 - h. Lacrosse
 - i. Rugby
 - j. Softball
 - k. Team handball
 - l. Volleyball
 - m. Water polo

2. Take part in ONE of the following sports, or any other recognized sport approved in advance by your commander (except boxing, karate, or a sport covered by an existing merit) on a competitive basis in two organized meets or tournaments:
 - a. Archery
 - b. Badminton
 - c. Bait or fly casting
 - d. Bowling
 - e. Canoeing
 - f. Cycling
 - g. Diving
 - h. Fencing
 - i. Fishing
 - j. Gymnastics
 - k. Handball
 - l. Horsemanship
 - m. Horseshoes
 - n. Orienteering
 - o. Paddleball
 - p. Sailing
 - q. Skating (ice or roller)
 - r. Skiing
 - s. Table tennis
 - t. Track and field
 - u. Waterskiing

3. Explain the meaning of good sportsmanship and give two examples.

4. Explain the qualities of a good team leader and a good team player.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

5. Do the following for the two sports you selected for Requirements 1 and 2.
 - a. Write down the rules of play.
 - b. Make drawings of the playing fields or areas.
 - c. Describe the equipment needed to play.
6. Write a 300-word essay on how participation in the sports you have chosen has personally benefited your life.
7. Interview a coach (preferably Christian) concerning the proper training, mental preparation, and commitment needed to be a good player. Include the notes of your interview.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

STAMP COLLECTING

1. Obtain and sort 250 stamps by countries. Your collection should have stamps from at least fifteen countries.
2. Make a list of all the stamps in your collection. For each stamp, include the following information:
 - a. Country of origin
 - b. Date of issue
 - c. Face value
 - d. Present value
 - e. Noted flaw
 - f. Purpose of issue (The purpose for the production of the stamp may include an anniversary, event, or a celebrity. However, some stamps may have just been produced for a general purpose. Note this as well.)
3. Define the following terms:
 - a. Cachet
 - b. Centering
 - c. Face value
 - d. Faults
 - e. Flaws
 - f. Forgery
 - g. Hinges
 - h. Overprint
 - i. Perforations
 - j. Philatelist
 - k. Proofs
 - l. Scott catalog number
 - m. Space filler
 - n. Specimens
 - o. Surcharges
 - p. Tropicalization
 - q. Watermark
4. Obtain a stamp album and hinge stamps into the album. Maintain separate sheets for each country of origin.
5. Describe and demonstrate to your commander the use of at least three tools used for stamp collecting. The list below is not exhaustive.
 - a. Tongs or tweezers
 - b. Magnifying glass
 - c. Hinges
 - d. Watermark fluid
 - e. Perforation gauge
 - f. Water



Royal Rangers

Merit Requirements: Green-Bordered Merit

6. Make a list of five things philatelists look for when collecting stamps. In addition, list and define gum conditions and stamp appearance terminology.
7. Write a 250-word essay on the history of stamp collecting.
8. Make a time line of at least twenty significant dates in U.S. postal history.
9. Provide an example or picture of each of the following:
 - a. Perforated and imperforate stamps
 - b. Mint and used stamps
 - c. Sheet, booklet, and coil stamps
 - d. Overprint and surcharge
 - e. Cancellation
 - f. First day cover
10. Do ONE of the following:
 - a. With an experienced collector, visit a stamp club, stamp show, or store specializing in stamp collecting. Write a 100-word report on what you saw and learned.
 - b. Read a pamphlet, book, or article about stamp collecting. Write a 100-word summary of the article. Provide the original article for your commander, along with your summary.
 - c. Write a 100-word report on a famous stamp; include a picture of the stamp.
 - d. Give an oral report (at least three minutes long) to the group about your collection.
 - e. Write a 100-word report describing at least three ways to preserve stamps. Be sure to cite your sources.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

SWIMMING

Note: This merit may be earned by being certified by the American Red Cross as an Advanced Beginner or Level III swimmer or qualifying for an equivalent certification, OR performing the following requirements:

1. Holding your breath underwater for fifteen seconds
2. Ten cycles of rhythmic breathing
3. Prone float and recovery
4. Prone glide with and without kick
5. Back glide with and without kick
6. Survival float for at least one minute
7. Crawl stroke or beginner stroke for twenty-five yards
8. Elementary backstroke for twenty-five yards
9. Jumping feetfirst into deep water, leveling your body and swimming twenty-five yards, then turning over on your back and returning to the starting point
10. Demonstrate the following safety skills:
 - a. Basic rescue techniques
 - b. The release of a cramp while in the water
 - c. The proper use of personal flotation devices



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

TENNIS

1. Read a rulebook on tennis.
2. Write a 250-word report on the origin and history of tennis.
3. Draw a diagram of a tennis court and identify the various areas of the court.
4. Define each of the following terms:
 - a. Backhand
 - b. Forehand
 - c. Ground stroke
 - d. Deuce
 - e. Lob
 - f. Service break
 - g. Volley
 - h. Lines
 - i. Love
 - j. English
 - k. Fault
 - l. Double fault
5. Describe the difference between singles tennis and doubles tennis. Draw the court of play used by each.
6. Earn a letter or a certificate of participation for tennis (junior high, high school, city, or an organized club), as a player, manager, or judge.
7. Interview a tennis coach (preferably Christian) about the requirements of training, mental preparation, and commitment that are needed to be a good tennis player. Include the notes of your interview.
8. Write a 250-word essay on how participation on a tennis team has personally benefited your life.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

TRUCK TRANSPORTATION

1. List at least four major trucking companies serving your town or city.
2. List at least four towns in your area that have only truck freight service.
3. List, in writing, at least five advantages and five disadvantages of truck transportation.
4. List, in writing, two other forms of transportation that join with the trucking industry to transport freight. Describe how this process is accomplished with these other forms of transportation.
5. List, in writing, two types of engines that are used to power trucks. Describe briefly how each engine combusts its fuel.
6. List two major categories of motor truck operators in the trucking business. Describe each category briefly.
7. List the United States governmental department that regulates the trucking industry.
 - a. List the agency in this department that regulates the trucking industry.
 - b. List what this agency regulates.
 - c. List what the Governmental Surface Transportation Assistance Act controls.
8. List at least four different kinds of trucks used in each of the following categories:
 - a. Light-duty truck
 - b. Medium-duty truck
 - c. Heavy-duty truck
9. Describe the following terms in writing:
 - a. Bill of lading
 - b. Common carrier
 - c. Contract carrier
 - d. Exempt carrier
 - e. Containerization
 - f. ETA
 - g. Logbook
10. Describe the type of truck/trailer used to transport fruits and vegetables and why they are used.
11. Interview a professional truck driver (preferably Christian) about driving safety. List five safe driving rules that he or she follows.
12. List four different career opportunities available in the trucking industry. Write a brief description of each.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

WOOD CARVING

1. Demonstrate proper handling of a pocketknife and wood carving tools.
2. List ten shop safety rules and the reason(s) for each rule.
3. List ten wood carving rules and the reason(s) for each rule.
4. List five types of wood carving tools and explain how each is used.
5. List three types of wood that can be used for wood carving. List the reasons for selecting each.
6. Describe two types of sharpening stones and demonstrate how to use them.
7. Demonstrate how to properly sharpen a pocketknife. Demonstrate how to properly sharpen two additional wood carving tools.
8. Read a book or view a video demonstrating two different types of carving projects, showing proper safety tips for using the tools. List the safety tips given.
9. Carve a simple object and complete it with a finish.
10. Carve a low relief object and complete it with a finish.



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

WRESTLING

1. Read a book on the rules of wrestling.
2. Read a book on the history of wrestling. Write a brief description of the sport of wrestling (75-100 words).
3. Draw diagrams of the wrestling areas for
 - a. Freestyle and Greco-Roman (Olympic)
 - b. Collegiate style wrestling
4. Describe, in writing, the difference between the following types of wrestling:
 - a. Freestyle
 - b. Greco-Roman
 - c. Collegiate style
5. Describe, in writing, the fundamental wrestling stance (square) and the defensive and offensive starting positions. Demonstrate the stance and positions.
6. Describe, in writing, how matches are scored and how points are awarded.
7. List at least eight illegal holds.
8. Earn a letter or a certificate of participation for wrestling (junior high, high school, city, or an organized club) as a wrestler, manager, or referee.
9. Write a 300-word essay on how participation on a wrestling team has benefited your life.
10. Interview a wrestling coach (preferably Christian) regarding the following items. Include the notes of your interview.
 - a. A winning attitude
 - b. Building character
 - c. Setting a good example and being a good role model
 - d. Physical fitness
 - e. Preparation for the future