

ATTENTION LEADERS, PARENTS, AND SCOUTS

This document contains the required Merit Badge Prework and Class Fees for Merit Badge Challenge 2010 for all schools.

(Dixie Heights, Fairfield, Sycamore, and Williamsburg High School)

Notes:

- 1. Not all merit badges shown below are offered at each event. Requirements below reflect those found in the 2009 BSA Requirement Book, and are to be used for the MBC 2010.
- 2. A Scout may attend only one Merit Badge Challenge each year.

Checklist for all Scouts regardless of merit badges to be taken:

- 1. Scout dress uniform is to be worn all 3 Saturdays.
- 2. Scouts are expected to arrive on time and stay until dismissed by the counselor.
- 3. Bring current merit badge book for each merit badge taken.
- 4. On the first Saturday the Scout needs to bring the following:
 - Self addressed stamped envelope for each merit badge
 - Signed and filled out blue merit badge card for each merit badge
 - Completed Prework and Fees (see below)

Prework: The Prework is to be completed *BEFORE* the first day of the Merit Badge Challenge. Specific items are listed by merit badge that the Scout needs to complete and bring the first Saturday. Some are time dependent and need to be started upon receipt of this document.

Impact of Plagiarism: Scouts are highly encouraged to use the Internet as an aid to earning merit badges. This information should then be written in the Scout's own words. Direct copying can result in the counselor returning the work as unacceptable.

Scout's class information to be affixed here on December mailing to Unit Contact

Fees: Some merit badges have fees associated for supplies and are noted below.

ANY QUESTIONS OR ISSUES ON PREWORK, CONTACT: JERRY OBERLAG
777-1856 (H) OR EMAIL: gaoberlag@fuse.net

Merit Badges offered at Merit Badge Challenge 2010, but not at all locations.

For reference, the following badges have revised BSA Merit Badge Requirements in 2009 and are applicable to Merit Badge Challenge 2010.

Cinematography

Drafting

Emergency Preparedness

Radio

The following badges have minor merit badge requirements updates in 2009 and are applicable to Merit Badge Challenge.

Coin Collecting

Collections

Indian Lore

Painting

AMERICAN CULTURES:

Prework: Requirement #4: Tell about a contribution made to our country by three different people, each from a different racial, ethnic or religious background.

Report should be a minimum of 250 words in length or more, preferably typed. Be sure to include Scout's name, unit, and District on the first page. Bring to class on first Saturday.

AMERICAN HERITAGE:

Prework: Requirement #2a: Select two individuals from American history, one a political leader (a president, senator, etc.) and the other a private citizen (a writer, religious leader, etc.). Find out about each person's accomplishments and compare the contributions each has made to America's heritage.

Report should be a minimum of 250 words in length or more, preferably typed. Be sure to include Scout's name, unit, and District on the first page. Bring to class on first Saturday.

ARCHITECTURE:

Prework: Complete requirement 5 and bring to class on first Saturday. Measure your bedroom. Make an accurately scaled drawing of the floor plan indicating walls, doors, windows, and furniture. Neatly label your drawing, including name, Troop number and date. (Drawing scale: 1/4" = 1 foot). Hint: refer to and use the symbols found in the Architecture Merit Badge pamphlet.)

ART:

Prework: Complete the following requirement and bring to class on first Saturday. Use Art merit badge book as a guide. Be sure to record name, Troop, and District on all documents. See examples in Merit Badge pamphlet.

Requirement #1: Tell a story with a picture or pictures or using a 3-D rendering.

ASTRONOMY:

Prework: Read the appropriate pages in the current Astronomy merit badge booklet. Then complete Requirement 8a: Describe the composition of the sun, its relationship to other stars and some effects of its radiation on the Earth's weather. Define sun-spots and describe some of the effects they may have on solar radiation.

Report should be at least a total of 200 words in length, preferably typed. Front page needs to include Scout's name, Troop, and District. Bring to class on first Saturday

Counselor suggests also starting Requirement 6 which requires 4 weeks of observations of the planets relative to the stars. Refer to Merit Badge pamphlet.

AVIATION:

Scout will have the opportunity to fly in a small aircraft in the early spring. Fee: \$3.00 for model kit.

Prework: Complete Requirement 1 (a).

- Define “aircraft.”
- Describe some kinds and uses of aircraft today.
- Explain the operation of a piston engine.
- Explain the operation of a turboprop engine.
- Explain the operation of a jet engine.

At least 5 different kinds of aircraft need to be described. Illustrations, drawings, images and/or photo’s may be copied and used, but each aircraft needs to be described using the Scout’s own words. Illustrations, drawings, images and/or photo’s may be copied and used for engine descriptions as well, but each engine needs to be described using the Scout’s own words. All written descriptions for each kind of aircraft and each type of engine must total at least 100 words in length.

Paper should be preferably typed with cover page including Scout’s name, Troop number, and District. Bring to class on first Saturday.

CHEMISTRY:

Cost: \$5.00 (Dixie Heights and Williamsburg High School)

Prework:

Complete requirement 5. List the four classical divisions of chemistry. Briefly describe each one, and tell how it applies to your everyday life.

Description should total at least 100 words in length, preferably typed. Be sure to include name and Troop number on first page. Bring both requirements to class on first Saturday.

CINEMATOGRAPHY: (Updated for 2009 Requirements)

Prework:

Complete requirement 3(b) Explain to your counselor the elements of the zoom lens and three important parts.

Description should total at least 100 words in length, preferably typed with a labeled sketch of the zoom lens. Be sure to include name and Troop number on first page. Bring both requirements to class on first Saturday.

CITIZENSHIP IN THE NATION:

Prework: Complete requirement #8: Name your two US senators and the member of congress from your congressional District. Write a letter to one of these elected officials on a national issue, sharing your view with him or her. Show your letter and any response to your counselor.

Bring list of elected officials and a copy of the letter to first class meeting. (It is suggested that a parent read your letter before mailing.)

CITIZENSHIP IN THE WORLD:

Prework: Complete Requirement #4c and bring to class on first Saturday:

Requirement #4c: Select TWO of the following organizations and describe their role in the world.

1. The United Nations
2. The World Court
3. World Organization of the Scout Movement
4. The World Health Organization
5. Amnesty International
6. The International Committee of the Red Cross
7. CARE

Descriptions should total at least 200 words in length, preferably typed. Be sure to include name and Troop number on first page. Bring to class on first Saturday.

COIN COLLECTING: (Updated for 2009 Requirements)

Prework: Complete Requirements #2a –f in written form (20 words per items) and #5a-c in written form (50 words each for 5b and 5c). Please be sure to include your name and Troop number on your paper. Bring to class on first Saturday.

Requirement #2: Explain these collecting terms:

- a) Obverse
- b) Reverse
- c) Reeding
- d) Clad
- e) Type Set
- f) Date Set

Requirement #8: Do the following:

- a) Identify the people depicted on the following denominations of current U.S. paper money: \$1, \$2, \$5, \$10, \$20, \$50, and \$100.
- b) Explain “legal tender”
- c) Describe the role the Federal Reserve System plays in the distribution of currency.

COLLECTIONS: (Updated for 2009 Requirements)

Pre-work: Requirement #1: Prepare a short written report for your counselor, giving a detailed description of your collection, including a short history. Be sure to include why you chose that particular type of collecting and what you enjoy and have learned from your collection.

The short written report, preferably typed, should be at least 200 words in length. Bring to class on first Saturday. Be sure to include your name, Troop, and District on the cover page.

Stamp and coin collecting are excluded from eligibility for this merit badge.

COMMUNICATIONS:

Prework: Requirement 5: Attend a public meeting (city council, school board, debate) approved by your counselor where several points of view are given on a single issue. Practice active listening skills and take careful notes of each point of view. Present an objective report that includes all points of view that were expressed, and share this with your counselor.

Report should be typed and a minimum of 300 words. Be sure to include your name, Troop, and District on the first page. Bring to class on first Saturday.

Fairfield High School Counselor Request: It is suggested the Scout also start Requirement 8 (Plan and conduct a Court of Honor) prior to the first session.

COMPUTERS:

Prework: Complete Requirement #2: Explain how the invention of the computer has affected society, science, and technology. In your explanation, give a short history of the computer.

Report should be 200 words in length or more, preferably typed. Be sure to include Scout’s name, unit, and District on the first page. Bring to class on first Saturday.

CRIME PREVENTION:

Prework: Requirement#2: Prepare a notebook of newspaper and other clippings that address crime and crime prevention efforts in your community.

A minimum of 10 pages is suggested. Be sure to put your name, Troop, and District on this and the other reports for this merit badge. Bring to class on first Saturday.

DENTISTRY:

Prework: Complete Requirement 2a: Tell or write about what causes dental decay and gum disease. Tell what each of the following does: bacterial plaque, sugars, and acid.

Report should be at least 150 words in length, preferably typed. Be sure to put name, Troop, and District on front page. Bring to class on first Saturday.

DISABILITY AWARENESS:

Prework: Complete Requirement 7: Name five professions that provide services to people with disabilities. Pick one that interests you and find out the education, training, and experience required for this profession. Discuss what you learn with your counselor, and tell why this profession interests you.

Report should be at least 150 words in length, preferably typed. Be sure to put name, Troop, and District on front page. Bring to class on first Saturday.

DOG CARE:

Start on requirement #4 immediately:

Req. #4: For two months, keep and care for your dog. Maintain a log of your activities during this period that includes these items: feeding schedule, types of food used, amount fed, exercise periods, training schedule, a weekly body weight record, grooming and bathing schedules, veterinary care, if necessary, and costs.

Refer to Merit Badge pamphlet. Report should be signed by a parent with name, Troop, and District on the front page.

DRAFTING: (Updated for 2009 Requirements)

Prework: None

ELECTRICITY:

Prework: Complete Requirement #8: On a floor plan of a room in your house, make a wiring diagram of lights, switches and outlets. Show which fuse or circuit breaker protects each one.

Use the information in the Electricity Merit Badge pamphlet. Bring to class on first Saturday.

Be prepared to explain the following electrical terms: volt, ampere, watt, ohm, resistance, potential difference, rectifier, rheostat, conductor, ground, circuit, and short circuit. Hint: study the merit badge book, pages 28 thru 31.

ELECTRONICS:

Cost: At the time of printing of this document the cost for this badge was not known for Dixie Heights.

Prework:

1. Scouts will purchase/secure the Electronics Merit Badge Book in advance and have it available at all classes.
2. Scouts will purchase/secure the following miniature electronics tools: Needle nose pliers, side cutting pliers, straight blade screwdriver, Phillips head screwdriver, and wire stripper.
3. Additionally, the Scouts will purchase/secure: solder wicking, small spool of #18 or #20 wire, and 15 watt electronics soldering iron, small roll of 60/40 rosin core solder.
4. Complete Requirement 6: Find out about three career opportunities in electronics that interest you. Discuss with and explain to your counselor what training and education are needed for each position.

Report should be a minimum of 200 words, preferably typed. Be sure to include Scout's name, Troop, and District on the first page. Bring to class on first Saturday.

EMERGENCY PREPAREDNESS: (Updated for 2009 Requirements)

Prework: Complete Requirements 1 and 8c.

Requirement #1: Earn the First Aid merit badge. Bring proof such as copy of First Aid merit badge blue card or signed note from Scout leader.

Requirement #8c: Prepare and bring to the first class the following.

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 of an emergency evacuation. (Contents of both are listed in the Emergency Prep merit badge book.)

ENERGY:

Complete Requirement 1 (a): Find an article on the use of conservation of energy. Discuss with your counselor what in the article was interesting to you, the questions it raises, and what ideals it addresses that you do not understand.

Discussion should be a minimum of 100 words, preferably typed. Be sure to include Scout's name, Troop, and District on the first page. Bring to class on first Saturday.

ENGINEERING:

Prework: Requirement #2: Select an engineering achievement that has had a major impact on society. Use the resources available to you to research it. Tell your counselor about the engineer(s) who made it possible, the special obstacles they had to overcome, and how this achievement has influenced the world today.

Discussion should be a minimum of 200 words, preferably typed. Be sure to include Scout's name, Troop, and District on the first page. Bring to class on first Saturday.

FAMILY LIFE:

Start on Requirement #3 immediately: Prepare a list of your regular home duties or chores (at least five) and do them for 90 days. Keep a record of how often you do each of them. Suggest using table in Family Life Merit Badge pamphlet. Note: Do not include such items as sports, practicing, homework, etc. as duties.

FINGERPRINTING:

Prework: None

FIRE SAFETY:

Prework: Read the Home Safety pages in the Fire Safety merit badge book. Then complete the following portion of Requirement #6: Conduct a home safety survey with the help of an adult. Use of forms in the merit badge pamphlet is suggested.

Also do Requirement 6a: Draw a home fire escape plan, create a home fire drill schedule, and conduct a home fire drill. See example in merit badge pamphlet. Bring both the survey and escape plan to class on first Saturday.

FIRST AID:

Cost: \$5.00 (Dixie Heights, Fairfield, Sycamore and Williamsburg)

Prework: Due to the fact that we hold class the entire morning, it is recommended the Scouts bring a small water bottle containing only water. Bring the M.B. book to class each day. In addition, the following requirements must be completed prior to beginning class:

- Be First Class in rank or have completed and signed off all the first aid requirements for Tenderfoot, 2nd, and 1st Class ranks. Bring your Boy Scout Handbook to class as proof.
- The First Aid Merit Badge book must be read prior to the first class date. Be sure to obtain the most recent book.
- Requirement 2d: Prepare a first-aid kit for your home. Bring to class on first Saturday. Use list in found in Merit Badge book.

GENEALOGY:

Prework: Req. #4b: Obtain at least one genealogical document showing proof of some information on your pedigree chart or family group records. This document may be located in your home, a courthouse, an archive or library, etc.

Bring at least one genealogical document (copy preferred) showing proof of some information that will be on your family chart, e.g. birth certificate, marriage certificate, death certificate to the first class.

Also bring to the first class, a list of your family (parents, siblings, grandparents, aunts, uncles, etc.) including known dates of birth, marriage, and death.

GEOLOGY:

Prework: Complete Requirement #2: Pick three resources that can be extracted or mined from Earth for commercial use. Discuss with your counselor how each product is discovered and processed.

Discussion should be a minimum of 150 words, preferably typed. Be sure to include Scout's name, Troop, and District on the first page. Bring to class on first Saturday.

Fairfield counselor requests for Requirement 5 that the Scout choose one of the options in Requirement 5 prior to coming to the first session since they will divide into groups according to the options.

INDIAN LORE: (Updated for 2009 Requirements)

Prework: Start Req. #2c: Make an authentic model of a dwelling used by any Indian tribe, group, or nation and bring to first class.

JOURNALISM:

Prework: None

LAW:

Prework: Complete Requirement 3: Tell what civil law is; tell what criminal law is. Tell the main differences between them. Give examples of each.

Bring Requirement 3 completed to the first class. Report should be at least 150 words, preferably typed, and list 3 examples of each. Be sure to include your name and Troop on the first page.

MEDICINE:

Prework: Complete Requirement #2: Explain the Hippocratic Oath to your counselor, and compare the original version to a more modern one. Discuss to whom those subscribing to the original version of the oath owe the greatest allegiance.

Report should be at least 200 words in length excluding the oaths, and preferably typed. Be sure to include name, Troop, and District on the front page. Bring to class on first Saturday.

MODEL DESIGN AND BUILDING:

Prework: Complete Requirement #2: Explain the uses for each of the following types of models: (1) architectural, (2) structural, (3) process, (4) mechanical, and (5) industrial. Do research into the different types of materials that could be used in making these models.

Report should be at least 200 words, and preferably typed. Be sure to include name, Troop, and district on the front page. Bring to class on first Saturday.

MUSIC:

Important note regarding requirement #1. The playing and site-reading skills needed for this performance suggest at least two years of experience playing with your school band, orchestra, or ensemble or singing with a choral group. The Scout may also have gained this experience by studying with a private music teacher. The Scout must choose a piece, which the counselor approves, to play or sing in class. The Scout must demonstrate good technique, phrasing, tone, rhythm and dynamics which may not be evident in those just beginning to play an instrument (those with less than two years experience). Performances will take place in sessions 2 and 3.

Prework: Requirement #3: Do TWO of the following:

- a. Go to a classical or semi classical musical performance or listen to three hours of such programs on radio, television, compact discs, tapes, records, or videos. Report what you heard. Name the composers, artists, and conductors. Know the story of any program music or opera you heard. Discuss how you feel about the music. Report should be typed and at least 300 words. Scout's name, Troop and District should appear on the first page.
- 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 about your favorite music. Report should be typed and at least 300 words. Scout's name, Troop and District should appear on the first page
- c. Serve for six months as a member of a school, church, Scout unit, or other local musical organization, or perform as a soloist in public six times. Bring note from Scout leader, parent, church leader, or teacher verifying the completion of this requirement.
- 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 over 100 years ago. Report should be typed and at least 300 words. Scout's name, Troop and District should appear on the first page.

NUCLEAR SCIENCE:

Prework: Complete Requirement 1b: Describe the radiation hazard symbol and explain where it should be used. Tell why and how people must use radiation or radiation materials carefully.

Report should be at least 150 words, preferably typed. It is suggested a color sketch of the hazard symbol be included. Be sure to include name and Troop number on your report.

PAINTING: (Updated for 2009 Requirements)

Fee: Sycamore (\$5)

Prework: None

PERSONAL MANAGEMENT:

Prework: Immediately start Req. 2a: Prepare a budget reflecting your expected income (allowance, gifts, wages,), expenses, and savings. Track your actual income, expenses, and savings for 13 consecutive weeks. (It is suggested you use the forms provided in the merit badge pamphlet.)

Note from Counselor: Budget must be prepared BEFORE tracking actual income and expenses.

PETS:

Prework: Immediately start Req. #1: Present evidence that you have cared for a pet for four months. Work done for other merit badges cannot be used for this requirement.

PHOTOGRAPHY:

All: Bring camera with 3 rolls of film, or 3 disposable cameras, or digital camera to first class. (NO camera phones.)

Prework: Complete Requirement 3: Discuss with your counselor the differences between a film camera and a digital camera. List at least five advantages and five disadvantages of using a digital camera versus a film camera.

Discussion should be a minimum of 150 words, preferably typed. Be sure to include Scout's name, Troop, and District on the first page. Bring to class on first Saturday.

PLUMBING

Prework: Complete the following requirements:

Requirement #2: Do the following (use info in plumbing merit badge book as a guide):

- a. Make a drawing and explain the way the hot- and cold- water supply system in your home or that of a neighbor works. Tell how you would make it safe from freezing (50 word minimum)
- b. Make a drawing and explain the drainage system of the plumbing in a house. Show and explain the use of drains and vents. (50 word minimum)

Requirement #8: Do the following (bring a signed note from adult verifying that the Scout has done this requirement)

- a. Replace a washer in a faucet.
- b. Clean out a sink or lavatory trap.

PUBLIC HEALTH:

Fairfield: Two field trips are associated with this merit badge for requirements 5a and 5b.

Prework: Complete Requirement #2 a and b: Do the following:

- a. Explain the meaning of *immunization*
- b. Name five diseases against which a young child should be immunized and two diseases against which you should be immunized periodically.

Bring completed requirement in written form to first class meeting. Be sure to include name and Troop number on the first page.

PUBLIC SPEAKING:

Prework: None, but be prepared to give an impromptu talk of at least 2 minutes at the first session.

PULP AND PAPER:

Cost: \$2.50 for papermaking kit (Fairfield and Sycamore):

There will be a field trip outside the regular MBC meeting times (Requirement 7).

Prework: Requirement #6: Make a list of 15 pulp or paper products in your home. Share samples of 10 such products. Bring list and products to first class on Saturday.

RADIO: (Updated for 2009 Requirements)

Prework: Complete Requirement #3: Do the following:

- a. Draw a chart of the electromagnetic spectrum covering 100 kilohertz (kHz) to 1000 megahertz (MHz).
- b. Label the MF, HF, VHF, UHF, and microwave portions of the spectrum on your diagram.
- c. Locate on your chart at least eight radio services such as AM and FM commercial broadcast, Citizens Band (CB), television, amateur radio (at least four ham radio bands), and public service (police and fire).

Report, excluding drawing and photos should be written (typed preferred) and be a minimum of 100 words. Be sure to include your name, Troop, and District on the first page. Bring to class on first Saturday.

RAILROADING:

Cost is \$10 to cover 2 kits and books payable at first meeting. The cost is being partly subsidized by National Model Railroad Assn.

Prework: None

READING:

Prework: Start requirements 1b, 1c and 1d

Requirement 1b. With the assistance of your merit badge counselor or a librarian, select six books of four different types (such as poetry, drama/plays, fiction, non-fiction, biographies, etc.). Ask your librarian or counselor about award-winning books that are recommended for readers your age and include at least one of those titles.

Requirement 1c. Find the books in the library catalog. With the counselor or a librarian's assistance, locate the books on the shelves.

Requirement 1d. Read each book. Keep a log of your reading that includes the title of the book, the pages and chapters read, the date you completed them, and your thoughts about what you have read so far. Discuss your reading with your counselor. Using your log as a reference, explain why you chose each book and tell whether you enjoyed it and what it means to you.

If possible start on Requirement 4.

SAFETY:

Prework: Read the section of the merit badge book on "safety in your home". Use the check list in the book (or other similar list) to COMPLETE the following:

Requirement 2a: Using a safety checklist approved by your counselor, make an inspection of your home. Explain the hazards found and how they can be corrected.

Be prepared to discuss the hazards found and methods to correct them. Bring completed checklist and hazard discussion to first class.

SCHOLARSHIP:

Prework: Complete Requirements #1 and 3# and bring evidence to the first meeting:

Requirement #1: Do ONE of the following:

1. Show that you have had an average grade of 82 (B) or above for one term or semester.
2. Show that for one term or semester you have improved your school grades over the previous period.

Requirement #3: Get a note from the principal of your school* that during the past year your behavior, leadership, and service have been better than average.

* Or from another school person named by the principal.

SPACE EXPLORATION:

Prework: Complete Requirement #5 and bring to first class. Be sure to put name, unit, and District on all documents.

Do TWO of the following:

- a. Discuss with your counselor an unmanned space exploration mission and an early manned mission. Tell about each mission's major discoveries, its importance, and what we learned from it about the planets, moons, or regions of space explored. (Report should be typed and a minimum of 300 words. Be sure to include your name, Troop, and District on the first page. Bring to class on first Saturday.)
- b. Using magazine photographs, new clippings, and electronic articles (such as the Internet), make a scrapbook about a current planetary mission. (Item should be a minimum of 6 pages. Be sure to include your name, Troop, and District on the first page. Bring to class on first Saturday.)
- c. Design an unmanned mission to another planet or moon that will return samples of its surface to Earth. Name the planet or moon your spacecraft will visit. Show how your design will cope with the conditions of the planet's or moon's environment. (Report, excluding drawing and photos should be written (typed preferred) and be a minimum of 200 words. Be sure to include your name, Troop, and District on the first page. Bring to class on first Saturday.)

STAMP COLLECTING:

Prework: Requirement #1: Do the following:

- a. Discuss how you can better understand people, places, institution, history, and geography as a result of stamp collecting.
- b. Briefly describe some aspects of the history, growth, and development of the United States postal system. How is it different from postal systems in other countries?

Report for 1-a should be 100 words in length or more and report for 1-b should be at least 200 words in length, both preferably typed. Be sure to include Scout's name, unit, and District on the first page. Bring to class on first Saturday.

SURVEYING:

Pework: None

TEXTILES:

Pework: Complete Requirement 6: Explain to your merit badge counselor, either verbally or in written report, five career possibilities in the textile industry. Tell about two positions that interest you the most and the education, cost of training, and specific duties those positions require.

Report should be at least 150 words, and preferably typed. Be sure to include name, Troop, and District on the front page. Bring to class on first Saturday.

TRAFFIC SAFETY:

Pework: Complete Requirements #1a and bring evidence to the first meeting:

Requirement #1a: Describe the top 10 mistakes new drivers frequently make. Name the two items you are required by law to carry with you whenever you operate a motor vehicle.

Report should be at least 150 words, and preferably typed. Be sure to include name, Troop, and District on the front page. Bring to class on first Saturday.

VETERINARY MEDICINE:

Pework: None

WEATHER:

Pework:

Requirement #8: Do ONE of the following:

- a. Make one of the following instruments: wind vane, anemometer, rain gauge, hygrometer. Keep a daily weather log for 1 week using information from this instrument as well as from other sources such as local radio and television stations or NOAA Weather Radio. The following information should be recorded at the same time every day: wind direction and speed, temperature, precipitation, and types of clouds. Be sure to make a note of any morning dew or frost. In the log, also list the weather forecasts from radio or television at the same time each day and show how the weather really turned out.

Bring log and weather instrument to class on the first Saturday.

- b. Visit a National Weather Service office or talk with a local radio or television weathercaster, private meteorologist, local agricultural Extension service office, or university meteorology instructor. Find out what type of weather is most dangerous or damaging to your community. Determine how severe weather and flood warnings reach the homes in your community.

Obtain a signed note on the stationery of the office visited that you completed this requirement and bring to first class on Saturday.

Requirement #9: Start requirement 9(a) or 9(b) by completing the outline mentioned in this requirement. Bring a copy of the written outline to the first meeting for approval by the Counselor.

WOODCARVING:

Cost: \$12.00 for carving knife (Dixie Heights)

Cost: \$15.00 for carving knife (Fairfield, Sycamore, and Williamsburg)

Pework: Bring proof of Totin Chip completion

Counselors recommend reading the Wood Carving Merit Badge pamphlet before the first session.

WOODWORK:

Pework: Complete Requirement 2 (a). Describe how timber is grown, harvested, and milled. Tell how lumber is cured, seasoned, graded, and sized.

Report should be at least 200 words in length, preferably typed. Be sure to include Scout's name, unit, and District on the first page. Bring to class on first Saturday.