

MERIT BADGE PRE-REQUISITES

AUTO MAINTENANCE	2
AVIATION	2
CHEMISTRY.....	2
CITIZENSHIP IN THE NATION.....	3
COMMUNICATION	3
ELECTRONICS	5
GENEALOGY	6
INVENTING	7
LANDSCAPE ARCHITECTURE.....	7
LAW	7
PAINTING	10
PHOTOGRAPHY	10
PUBLIC SPEAKING.....	10
SOIL AND WATER	10
SURVEYING.....	10
TRAFFIC SAFETY.....	11
TRUCK TRANSPORTATION.....	12

NOTE

Some pre-requisites require the Scout to contact the Merit Badge Counselor.

Don't forget that two-deep leadership requirements apply to ALL contact.

Be it by phone, text, email or other, include a parent/guardian/Scoutmaster.

When a Scout emails through their parent's/guardian's email account, they must copy a second parent/guardian/Scoutmaster on emails to ensure two-deep leadership is maintained.

AUTO MAINTENANCE

Read and be prepared to discuss / demonstrate requirements 1-10 (we will work on some of this outside if the weather cooperates). Complete requirements #11 and 12 at home and be prepared to explain in detail to the counselors. Pictures of the activities are always a good thing.

AVIATION

(6 per class)

- Looking at the requirements, the scouts need to **write up and have with them when we meet**, the answers to the following questions:

1. A - E
- 5.

I do not want them to send it to me by email but have it with them when we meet.

- We will do 2. B & C at the airport.
- Must do 3. A or B before we meet. 3.B requirement might be hard with COVID. However with Zoom, anything is possible.
- We will satisfy 4.A by the scouts coming to the airport.

I will not give credit to any scout who does not have the written material with him or her. There is more than enough time to get the answers written down before we meet in May or Jun.

CHEMISTRY

- 1c,
- 3 (build a Cartesian Diver), and
- 7 b (only choice since we are not visiting other locations).

CITIZENSHIP IN THE NATION

2 Do TWO of the following:

- a. Visit a place that is listed as a National Historic Landmark or that is on the National Register of Historic Places. Tell your counselor what you learned about the landmark or site and what you found interesting about it.
- b. Tour your state capitol building or the U.S. Capitol. Tell your counselor what you learned about the capitol, its function, and the history.
- c. Tour a federal facility. Explain to your counselor what you saw there and what you learned about its function in the local community and how it serves this nation.
- d. Choose a national monument that interests you. Using books, brochures, the Internet (with your parent's permission), and other resources, find out more about the monument. Tell your counselor what you learned, and explain why the monument is important to this country's citizens.

3 Watch the national evening news five days in a row OR read the front page of a major daily newspaper five days in a row. Discuss the national issues you learned about with your counselor. Choose one of the issues and explain how it affects you and your family.

8 Name your two senators and the member of Congress from your congressional district. Write a letter about a national issue and send it to one of these elected officials, sharing your view with him or her. Show your letter and any response you receive to your counselor.

COMMUNICATION

Read and look over the Communication Merit Badge (use the Revised January 2019 version)

Requirement #1: Do ONE of the following:

- a) **For one day, keep a log in which you describe your communication activities.** Keep track of the time and different ways you spend communicating,

such as talking person-to-person, listening to teachers, the radio, or podcasts, watching television, using social media, reading books and other print media, and using any electronic communication device. Discuss with your counselor what your log reveals about the importance of communication in your life. Think of ways to improve your communications skills.

b) **For three days**, keep a journal of your listening experiences. **Identify one example of each of the following**, and discuss with your counselor when you have listened to:

1. Obtain information
2. Be persuaded
3. Appreciate or enjoy something
4. Understand someone's feelings

c) **In a small-group setting, meet with other scouts or with friends.** Have them share personal stories about significant events in their lives that affected them in some way. Take note of how each scout participates in the group discussion and how effectively each scout communicates their story. Report what you have learned to your counselor about the differences you observed in effective communication.

d) **List as many ways as you can think of to communicate with others** (face-to-face, by telephone, letter, e-mail, text messages, social media, and so on). For each type of communication discuss with your counselor an instance when that method might not be appropriate or effective.

Requirement #2: Do ONE of the following:

a) Think of a creative way to describe yourself, using, for example, a collage, short story or autobiography, drawing or series of photographs, or a song or skit. Using the aid you created, make a presentation to your counselor about yourself.

b) Choose a concept, product, or service in which you have great confidence. Build a sales plan based on its good points. Try to persuade the counselor to agree with, use, or buy your concept, product or service. After your sales talk, discuss with your counselor how persuasive you were.

Requirement #4: Interview someone you know fairly well, like, or respect because of his or her position, talent, career or life experiences. Listen actively to learn as much as you can about the person. Then prepare and deliver to your counselor an introduction of the person as though this person were to be a guest speaker, and include reasons why the audience would want to hear this person speak. Show how you would call to invite this person to speak.

Requirement #9: Find out about three career opportunities in communication. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.

ELECTRONICS

5 per class science room

2. Do the following:

a. Draw a simple schematic diagram. It must show resistors, capacitors, and transistors or integrated circuits. Use the correct symbols. Label all parts.

4. Do the following:

(b) Show how to change three decimal numbers into binary numbers and three binary numbers into decimal numbers.

5. Do the following:

a. Show how to solve a simple problem involving current, voltage, and resistance using Ohm's law.

b. Tell about the need for and the use of test equipment in electronics. Name three types of test equipment. Tell how they operate.

c. Demonstrate to your counselor how to read the colored bands of a resistor to determine its resistance value.

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.

For those of you who use Scoutbook, please connect that way. This will help track requirements and make sure you get credit for what you do.

GENEALOGY

Please complete the following requirements prior to our first session. If you need help or have questions please email me (Mrs. Jones) at tokyrose717@comcast.net.

- Req 2: Do either A or B
- Req 3: Please interview a RELATIVE (I know the requirement says you can use a family acquaintance but interviewing a relative may help with other requirements for the badge.)

Some ideas to ask:

~Ask them things about when and where they were born.

~Ask about their parents and grandparent.

~What life was like when they were a child?

~Is there a family record in a family Bible or other place?

~You may ask them for a copy of a document you can use for Requirement 4 B.

- Req 4 B: Obtain (PLEASE bring a copy of the document with you) at least one genealogical document that supports an event that is or can be recorded on your pedigree chart or family grouping record.

Some ideas of what you can bring:

~birth certificates

~marriage license

~adoption records

~census records

~citizenship papers

~military records

~newspapers

~obituaries

~land/property records

~voter records

~school records

~church records

- Req 5: Contact one of the individuals or institutions to obtain the needed information.

Again, please email me if you have any questions or need assistance.

Mrs. Jones | tokyrose717@comcast.net

INVENTING

#3C Examine your Scouting gear and find a patent number on a camping item you have used. With your parent's permission, use the Internet to find out more about that patent. Compare the finished item with the claims and drawings in the patent. Report what you learned to your counselor. (DONE PRIOR TO MAY SESSION)

5 Choose a commercially available product that you have used on an overnight camping trip with your troop. Make recommendations for improving the product, and make a sketch that shows your recommendations. Discuss your recommendations with your counselor. (DONE PRIOR TO MAY SESSION)

6. Think of an item you would like to invent that would solve a problem for your family, troop, chartered organization, community, or a special-interest group. (BRING AN IDEA TO DISCUSS)

8 Do ONE of the following:

a. Participate with a club or team (robotics team, science club, or engineering club) that builds a useful item. Share your experience with your counselor. (IF THEY ARE A MEMBER, JUST NEED A NOTE)

b. Visit a museum or exhibit dedicated to an inventor or invention, and create a presentation of your visit to share with a group such as your troop or patrol. (COULD BE DONE PRIOR TO MAY SESSION)

LANDSCAPE ARCHITECTURE

5. Find out about three career opportunities in landscape architecture. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.

LAW

You may record your answers on a worksheet available at Merit Badge Worksheets or below.

Prerequisites for May 22 session: We will cover requirements 1, 2, 3, 5, 8, 10 and 11

a. Tell where you can obtain the help of a lawyer if you are unable to pay for one:

Civil matter: _____

Criminal matter: _____

b. Tell what you can do if you can afford a lawyer but do not know of any in your area: _____

11. Developing areas of the law

Prepare to discuss the importance in our society of TWO of the following areas of the law that have recently emerged and are still developing:

a. Environmental law: _____

b. Computers and the internet: _____

c. Copyright and the internet: _____

d. Immigration: _____

f. Biotechnology: _____

g. Privacy law: _____

h. International law: _____

Prerequisites for June 12 session: We will cover requirements 4, 6, 7 and 9 4.

Law enforcement

a. Ask 5 people (not more than 1 from your immediate family) about the role of law enforcement officers in our society. Discuss their answers with them.

b. Go to a law enforcement officer in your neighborhood and ask about his or her responsibilities and duties. Report your findings.

6. Attend a court session or plan and conduct a mock trial

a. Attend a session of a civil or criminal court.

Although these restrictions are subject to change, most courts conduct hearings virtually due to COVID-19 restrictions. If you cannot personally attend a court session, at this time, Cumberland County, PA is following on-line guidelines. Here is the link for its court schedule:

<https://www.ccpa.net/DocumentCenter/View/36706/Court-Calendar-2021---FINAL>

Choose a date scheduled for Civil Court--Common Pleas Trials-Civil Division (pg 2) or Criminal Court-- Pre-Trials-Criminal Division (either day) or Common Pleas Trials-Criminal Division (pg. 3).

Once you have picked a day, go to this link:

<https://www.ccpa.net/DocumentCenter/View/36186/Cumberland-County-Bench-> which is the **Protocol for Video/Audio Hearings** to find the Zoom link to the various courtrooms. You are obligated to follow the requirements contained within this linked document. If the court in your area offers similar access, you are permitted to obtain its hearing dates and follow its protocols. Otherwise, you can wait for the courts to offer in person hearings and attend when it is in session.

b. Plan and conduct a mock trial with your troop or school class. After the trial is over, discuss it with the group.

7. Arrange a visit with a lawyer who works for a business, bank, title company, or government agency. Find out his or her responsibilities. Report what you have learned.

9. Legal jobs

a. Make a list of 15 jobs that deal with aspects of law or legal processes.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

13. _____

14. _____

15. _____

b. Tell which you prefer: _____

If you have any questions or need to follow up with me: Mr. James K. Jones

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PAINTING

None

PHOTOGRAPHY

1b have a current [BSA Cyber Chip](#)

PUBLIC SPEAKING

- 5 PER CLASS

NONE

SOIL AND WATER

2d, 3c, 4b & c, 5a, 6d, 7a, 7d, 7e.

SURVEYING

Double class

#6 Bring in Deed

TRAFFIC SAFETY

Read the MB BOOK

1. Do the following:
 - a. 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.
 - b. Describe how alcohol and other drugs affect the human body and why a person should never drink and drive, or drive while under the influence of any mind-altering substances, including prescription drugs, cold medications, and illicit drugs. For the state where you live, find out what is the legal blood alcohol concentration and the consequences for driving while intoxicated or driving under the influence. Find out what the open-container law is in your state.
 - c. Describe at least four factors to be considered in the design of a road or highway. Explain how roadside hazards and road conditions contribute to the occurrence and seriousness of traffic crashes.
 - d. Explain why a driver who is fatigued or distracted should not operate a motor vehicle. List five common distractions, explain how driver distractions contribute to traffic accidents, and tell how drivers can minimize distractions. Describe how volunteer drivers can plan to be alert when transporting Scouting participants.

5. Do ONE of the following:
 - a. Interview a traffic law enforcement officer in your community to identify what three traffic safety problems the officer is most concerned about. Discuss with your merit badge counselor possible ways to solve one of those problems.
 - b. Using the Internet (with your parent's permission), visit five websites that cover safe driving for teenagers. Then, in a group session with at least three teenagers and your counselor, discuss what you have learned.
 - c. Initiate and organize an activity or event to demonstrate the importance of traffic safety.
 - d. Accompanied by an adult and a buddy, pick a safe place to observe traffic at a controlled intersection (traffic signal or stop sign) on three separate days and at three different times of the day, for 30 minutes on each visit. At this

intersection, survey violations that might occur. These violations could include (but are not limited to) running a red light or stop sign, speeding, using a cell phone while driving, or occupants not wearing their seat belts. Count the number of violations. Record in general terms the approximate age of the people you observed. Keep track of the total number of vehicles observed so that you can determine the percentage of compliance vs. violations. Discuss your findings with your merit badge counselor.

TRUCK TRANSPORTATION

NONE