



2024 Edition

# SCOUTMASTER BUCKY

## Public Health Merit Badge

SCOUTS PARTICIPATING IN A SCOUTMASTER BUCKY MERIT BADGE OPPORTUNITY (ONLINE OR IN PERSON), PLEASE CONSIDER ALSO USING THE PUBLIC HEALTH MERIT BADGE CLASS PREPARATION PAGE FOR CLARIFICATIONS, INSIGHTS, AND EXPECTATIONS.

<https://scoutmasterbucky.com/merit-badges/public-health/public-health-cpp.pdf>

### PUBLIC HEALTH MERIT BADGE WORKBOOK

**REQUIREMENT 1:** Explain what public health is.

Notes:

**REQUIREMENT 1:** Explain how Escherichia coli (E. coli), tetanus, AIDS, encephalitis, salmonellosis, Lyme disease, and coronavirus (COVID-19) are contracted.

ESCHERICHIA COLI (E. COLI):

How Contracted:

TETANUS:

How Contracted:



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AIDS:

How Contracted:

ENCEPHALITIS:

How Contracted:

LYME DISEASE:

How Contracted:

CORONAVIRUS (COVID-19):

How Contracted:



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### REQUIREMENT 1:

Then, pick any four of the following diseases and explain how each one is contracted and possibly prevented: gonorrhea, West Nile virus, botulism, influenza, syphilis, hepatitis, emphysema, meningitis, herpes, lead poisoning. For all 10 diseases, explain the type or form of the disease (viral, bacterial, environmental, toxin), any possible vectors for transmission, ways to help prevent exposure or the spread of infection, and available treatments.

GONORRHEA:

Type or Form of Disease (viral, bacterial, environmental, toxin):

How Contracted:

How Prevented:

Vectors:

How to Prevent Exposure or Spreading:

Available Treatments:



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**WEST NILE VIRUS:**

**Type or Form of Disease (viral, bacterial, environmental, toxin):**

**How Contracted:**

**How Prevented:**

**Vectors:**

**How to Prevent Exposure or Spreading:**

**Available Treatments:**



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**BOTULISM:**

**Type or Form of Disease (viral, bacterial, environmental, toxin):**

**How Contracted:**

**How Prevented:**

**Vectors:**

**How to Prevent Exposure or Spreading:**

**Available Treatments:**



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### INFLUENZA:

Type or Form of Disease (viral, bacterial, environmental, toxin):

How Contracted:

How Prevented:

Vectors:

How to Prevent Exposure or Spreading:

Available Treatments:



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**SYPHILIS:**

**Type or Form of Disease (viral, bacterial, environmental, toxin):**

**How Contracted:**

**How Prevented:**

**Vectors:**

**How to Prevent Exposure or Spreading:**

**Available Treatments:**



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### HEPATITIS:

Type or Form of Disease (viral, bacterial, environmental, toxin):

How Contracted:

How Prevented:

Vectors:

How to Prevent Exposure or Spreading:

Available Treatments:





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**EMPHYSEMA:**

**Type or Form of Disease (viral, bacterial, environmental, toxin):**

**How Contracted:**

**How Prevented:**

**Vectors:**

**How to Prevent Exposure or Spreading:**

**Available Treatments:**



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### MENINGITIS:

Type or Form of Disease (viral, bacterial, environmental, toxin):

How Contracted:

How Prevented:

Vectors:

How to Prevent Exposure or Spreading:

Available Treatments:



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**HERPES:**

**Type or Form of Disease (viral, bacterial, environmental, toxin):**

**How Contracted:**

**How Prevented:**

**Vectors:**

**How to Prevent Exposure or Spreading:**

**Available Treatments:**



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### LEAD POISONING:

Type or Form of Disease (viral, bacterial, environmental, toxin):

How Contracted:

How Prevented:

Vectors:

How to Prevent Exposure or Spreading:

Available Treatments:



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**REQUIREMENT 2a:** Explain the meaning of immunization.

Notes:

**REQUIREMENT 2b:** Name eight diseases against which a young child should be immunized.

Notes:

**REQUIREMENT 2b:** Name two diseases against which everyone should be reimmunized periodically

Notes:

**REQUIREMENT 2b:** Name one immunization everyone should receive annually.

Notes:



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**REQUIREMENT 2c:** Using the list of diseases and conditions in requirement 1, discuss with your counselor those which currently have no immunization available.

disease / condition	immunization	No immunization	disease / condition	immunization	No immunization
Escherichia coli (E. coli)			Botulism		
Tetanus			Influenza		
AIDS			Syphilis		
Encephalitis			Hepatitis		
Salmonellosis			Emphysema		
Lyme Disease			Meningitis		
Coronavirus (COVID-19)			Herpes		
Gonorrhea			Lead Poisoning		
West Nile Virus					

Notes:



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**REQUIREMENT 3:** Discuss the importance of safe drinking water in terms of the spread of disease.

Notes:

**REQUIREMENT 3:** Then, demonstrate two ways for making water safe to drink that can be used while at camp.

No workbook entry is necessary for this part of the requirement.

**This requirement must be reviewed with your merit badge counselor.**

**BE PREPARED!**

**REQUIREMENT 3:** In your demonstration, explain how dishes and utensils should be washed, dried, and kept sanitary at home and in camp.

Notes:



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**REQUIREMENT 4:** Explain what a vector is

Notes:

**REQUIREMENT 4:** Explain how insects and rodents can be controlled in your home, in your community, and at camp.

Notes:

**REQUIREMENT 4:** Tell why controlling insects and rodents in your home, in your community, and at camp is important.

Notes:

**REQUIREMENT 4:** Explain which vectors can be easily controlled by individuals and which ones require long-term, collective action.

Notes:





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**DO ONE OF THE FOLLOWING (5A or 5B) FOR REQUIREMENT 5**

**REQUIREMENT 5a:** Visit a municipal wastewater treatment facility or a solid-waste management operation in your community.

1. Describe how the facility safely treats and disposes of sewage or solid waste.
2. Discuss your visit and what you learned with your counselor.
3. Describe how sewage and solid waste should be disposed of under wilderness camping conditions.

**Facility:**

**Date, Time, and Location of Visit:**

**REQUIREMENT 5a1:** Describe how the facility safely treats and disposes of sewage or solid waste.

**Notes:**



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**REQUIREMENT 5a2:** Discuss your visit and what you learned with your counselor.

Notes:

**REQUIREMENT 5a3:** Describe how sewage and solid waste should be disposed of under wilderness camping conditions.

Notes:



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**REQUIREMENT 5b:** Visit a food service facility, such as a restaurant or school cafeteria.

Facility:

Date, Time, and Location of Visit:

**REQUIREMENT 5b1:** Observe food preparation, handling, and storage. Learn how the facility keeps food from becoming contaminated.

Notes:

**REQUIREMENT 5b2:** Find out what conditions allow microorganisms to multiply in food, what can be done to help prevent them from growing and spreading, and how to kill them.

Notes:



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**REQUIREMENT 5b3:** Discuss the importance of using a thermometer to check food temperatures.

Notes:

**REQUIREMENT 5b4:** Discuss your visit and what you learned with your counselor.

Notes:

**REQUIREMENT 6a:** Describe the health dangers from air, water, and noise pollution.

Air Pollution:

Water Pollution:

Noise Pollution:



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**REQUIREMENT 6b:** Describe health dangers from tobacco use and alcohol and drug abuse.

Tobacco Use:

Alcohol Use:

Drug Use:

**REQUIREMENT 6c:** Describe the health dangers from abusing illegal and prescription drugs.

Illegal Drugs:

Prescription Drugs:



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**DO ONE OF THE FOLLOWING (7A or 7B) FOR REQUIREMENT 7**

**REQUIREMENT 7a:** Visit your city, county, or state public health agency.

**REQUIREMENT 7b:** Familiarize yourself with your city, county, or state health agency's website.

**Facility:**

**Date, Time, and Location of Visit:**

**REQUIREMENT 7:** After completing either 7a or 7b, do the following:

**REQUIREMENT 7ab1:** Compare the four leading causes of mortality (death) in your community for any of the past five years with the four leading causes of disease in your community.

**Notes:**

**REQUIREMENT 7ab1:** Explain how the public health agency you visited is trying to reduce the mortality and morbidity rates of these leading causes of illness and death.

**Notes:**



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**REQUIREMENT 7ab2:** Explain the role of your health agency as it relates to the outbreak of diseases.

Notes:

**REQUIREMENT 7ab3:** Discuss the kinds of public assistance the agency is able to provide in case of disasters such as floods, storms, tornadoes, earthquakes, and other acts of destruction. Your discussion can include the cleanup necessary after the disaster.

FLOODS:

Notes:

Necessary Cleanup:

STORMS:

Notes:

Necessary Cleanup:



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### TORNADOES:

**Notes:**

**Necessary Cleanup:**

### EARTHQUAKES:

**Notes:**

**Necessary Cleanup:**

### OTHER ACTS OF DESTRUCTION:

**Notes:**

**Necessary Cleanup:**





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### REQUIREMENT 8:

Pick a profession in the public health sector that interests you. Find out the education, training, and experience required to work in this profession. Discuss what you learn with your counselor.

Selected Career Opportunity:

Educational Requirements:

Training Requirements:

Experience Requirements: