

# MERIT BADGE SERIES



# ARCHERY



BOY SCOUTS OF AMERICA®

STEM-Based

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*"Enhancing our youths' competitive edge through merit badges"*



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## Archery

1. Do the following:
  - (a) State and explain the Range Safety Rules:
    - (1) Three safety rules when on the shooting line
    - (2) Three safety rules when retrieving arrows
    - (3) The four whistle commands used on a range and their related verbal commands
  - (b) State and explain the general safety rules for archery. Demonstrate how to safely carry arrows in your hands.
  - (c) Tell about your local and state laws for owning and using archery tackle.
2. Do the following:
  - (a) Name and point to the parts of an arrow.
  - (b) Describe three or more different types of arrows.
  - (c) Name the four principal materials for making arrow shafts.
  - (d) Do ONE of the following
    - (1) Make a complete arrow from a bare shaft using appropriate equipment available to you.

OR

  - (2) To demonstrate arrow repair, inspect the shafts and prepare and replace at least three vanes, one point, and one nock. You may use as many arrows as necessary to accomplish this. The repairs can be done on wood, fiberglass, or aluminum arrows.
  - (e) Explain how to properly care for and store arrows.
3. Do the following:
  - (a) Explain the proper use, care, and storage of, as well as the reasons for using tabs, arm guards, shooting gloves, and quivers.

- (b) Explain the following terms: cast, draw weight, string height (fistmele), aiming, spine, mechanical release, freestyle, and barebow.
  - (c) Make a bowstring using appropriate materials.
4. Explain the following:
- (a) The importance of obedience to a range officer or other person in charge of a range
  - (b) The difference between an end and a round
  - (c) The differences among field, target, and 3-D archery
  - (d) How the five-color World Archery Federation target is scored
  - (e) How the National Field Archery Association (NFAA) black-and-white field targets and blue indoor targets are scored
  - (f) The elimination system used in Olympic archery competition
5. Do ONE of the following options.

**Option A—Using a Recurve Bow or Longbow**

- (a) Name and point to the parts of the recurve or longbow you are shooting.
- (b) Explain how to properly care for and store recurve bows and longbows.
- (c) Show the 10 steps of good shooting for the bow you are shooting.
- (d) Demonstrate the proper way to string a recurve bow or longbow.
- (e) Using a bow square, locate and mark with dental floss, crimp-on, or other method, the nocking point on the bowstring of the bow that you are using.
- (f) Do ONE of the following:
  - (1) Using a recurve or longbow and arrows with a finger release, shoot a single round of one of the following BSA, USA Archery, or NFAA rounds:
    - (a) An NFAA field round of 14 targets and make a score of 60 points
    - (b) A BSA Scout field round of 14 targets and make a score of 80 points
    - (c) A Junior 900 round and make a score of 180 points
    - (d) An FITA/USA Archery indoor\* round I and make a score of 80 points
    - (e) An NFAA indoor\* round and make a score of 50 points
  - (2) Shooting 30 arrows in five-arrow ends at an 80-centimeter (32-inch) five-color target at 10 yards and using the 10 scoring regions, make a score of 150.
  - (3) As a member of the NAA's Junior Olympic Archery Development program (JOAD), achieve the level of green, purple, and gray stars as part of a JOAD Club indoor or outdoor season with your chosen style of archery equipment.
  - (4) As a member of the NFAA's Junior Division, earn a Cub or Youth 100-score Progression Patch.

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\*The indoor rounds can be shot outdoors if this is more convenient.

## **Option B—Using a Compound Bow**

- (a) Name and point to the parts of the compound bow you are shooting.
- (b) Explain how to properly care for and store compound bows.
- (c) Show the 10 steps of good shooting for the bow you are shooting.
- (d) Explain why it is necessary to have the string or cable on a compound bow replaced at an archery shop.
- (e) Locate and mark with dental floss, crimp-on, or other method, the nocking point on the bowstring of the bow that you are using.
- (f) Do ONE of the following:
  - (1) Using a compound bow and arrows with a finger release, shoot a single round of one of the following BSA, USA Archery, or NFAA rounds:
    - (a) An NFAA field round of 14 targets and make a score of 70 points
    - (b) A BSA Scout field round of 14 targets and make a score of 90 points
    - (c) A Junior 900 round and make a score of 200 points
    - (d) An FITA/USA Archery indoor\* round I and make a score of 90 points
    - (e) An NFAA indoor\* round and make a score of 60 points
  - (2) Shooting at an 80-centimeter (32-inch) five-color target using the 10 scoring regions, make a minimum score of 160. Accomplish this in the following manner:

Shoot 15 arrows in five-arrow ends, at a distance of 10 yards

AND

Shoot 15 arrows in five-arrow ends, at a distance of 15 yards.
- (3) As a member of the NAA's Junior Olympic Archery Development program (JOAD), achieve the level of green, purple, and gray stars as part of a JOAD Club indoor or outdoor season with your chosen style of archery equipment.
- (4) As a member of the NFAA's Junior Division, earn a Cub or Youth 100-score Progression Patch.

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\*The indoor rounds can be shot outdoors if this is more convenient.

# Archery Resources

## Scouting Literature

*Basic Illustrated Archery; Rifle Shooting and Shotgun Shooting* merit badge pamphlets

Visit the Boy Scouts of America's official retail website at <http://www.scoutstuff.org> for a complete listing of all merit badge pamphlets and other helpful Scouting materials and supplies.

## Books and Videos

Adams, John. *Archery (Know the Sport)*. Stackpole Books, 1996.

Boga, Steven. *Archery (Backyard Games)*. Stackpole Books, 1997.

Camera, Anthony. *Shooting the Stickbow*. Virtualbookworm.com Publishing, 2008.

Fadala, Sam. *Traditional Archery*. Stackpole Books, 1999.

Hamlett-Wood, Michael. *Field Archery: A Complete Guide*. Robert Hale Ltd., 2002.

Haywood, Kathleen M., and Catherine F. Lewis. *Archery: Steps to Success*. 2nd ed. Human Kinetics, 1996.

Human Kinetics. *Archery Fundamentals* (Sports Fundamentals Series). Human Kinetics, 2004.

Sapp, Richard. *Archer's Digest*. 7th ed. Krause Publications, 2003.

United States Olympic Committee. *A Basic Guide to Archery*. Griffin, 1997.

USA Archery. *Archery*. Human Kinetics, 2012.

Wallentine, Douglas. *Making Indian Bows and Arrows, The Old Way*. Eagle's View, 1988.

Wise, Larry. *Bow and Arrow: The Comprehensive Guide to Equipment, Technique, and Competition*. Stackpole Books, 1992.

The following books and videos are available from Quintessential Productions, website <http://www.qproductsarchery.com>, or USA Archery (National Archery Association), website <http://www.teamusa.org/USA-Archery>.

Rowe, Ruth. *Archery: The Basics*. #053V (video).

\_\_\_\_\_. *Archery: Refining Your Form*. #033V (video).

\_\_\_\_\_. *Fundamentals of Recurve Target Archery*. #030B (book).

Rowe, Ruth, and Alan Anderson.

*Simple Maintenance for Archery.*  
#031B (book).

Instructional archery videos, including Larry Wise's *The Complete Guide to Beginning Archery*, are available from Robinhood Video Productions Inc., 1600 Reynoldsburg-New Albany Road, Blacklick, OH 43004; telephone 614-322-1038; website <http://www.robinhoodvideos.com>.

### **Periodicals**

#### ***Archery Focus* magazine**

Toll-free telephone: 800-671-1140  
Website: <http://www.archeryfocus.com>

#### ***U.S. and International Archer* magazine**

Telephone: 520-742-5846  
Website: <http://www.usarcher.com>

### **Organizations and Websites**

#### **International Bowhunting Organization**

Telephone: 440-967-2137  
Website: <http://www.ibo.net>

#### **National Field Archery Association**

Toll-free telephone: 800-811-2331  
Website: <http://www.nfaa-archery.org>

#### **USA Archery**

One Olympic Plaza  
Colorado Springs, CO 80909  
Telephone: 719-866-4576  
Website: <http://www.usarchery.org>

#### **World Archery Federation**

Maison du Sport International  
Avenue de Rhodanie 54  
1007 Lausanne  
Switzerland  
Website: <http://www.archery.org>