



## Astronomy Merit Badge at Riverbend Park

Welcome to the Astronomy Merit Badge program at Riverbend Park or Turner Farm Park. The program is held at the Riverbend Visitor Center 8700 Potomac Hills Street, Great Falls, VA 22066 or Turner Farm Park, 925 Springvale Road, Great Falls, VA 22066 unless otherwise indicated by park staff.

### **Important general Merit Badge information for parents:**

Be sure that you are familiar with the requirements for the merit badge your scout has selected. Some badges may take considerable time and planning to complete and may not be appropriate for younger scouts. Blue cards must be signed by your Troop Leader prior to attending the merit badge class. Park staff will not sign off on any blue cards missing this signature.

Most merit badges are not designed to be completed in a single session with an instructor, so it is not always possible to walk away with a completed and signed blue card at the end of a program. Every badge requires some independent work by your scout.

FCPA-Riverbend Park will provide staff, meeting BSA Youth Protection guidelines for male and female scouts, and supervision ratios. Parent/guardian **MUST** sign-in, and sign-out each participant(s) from the class. If you provided your own transportation, you may sign-in and sign-out yourself from the class. There is no fee if adults wish to stay during the class.

### **Below is the recommended homework to be completed before the program:**

There are some useful links at the end of some questions; however, scouts are encouraged to find their own sources (library, internet etc.). Please note that internet links change often, and the recommended links may not work.

Merit badge worksheets may be downloaded from [meritbadge.org](http://meritbadge.org) and brought to class. These worksheets help scouts organize their homework and classwork.

- 4c. Make two sketches of the Big Dipper. In one sketch, show the Big Dipper's orientation in the early evening sky. In another sketch, show its position several hours later. In both sketches, show the North Star and the horizon. Record the date and time each sketch was made.
- 5b. Using the Internet (with your parent's permission) and other resources, find out when each of the five most visible planets that you identified in requirement 5a will be observable in the evening sky during the next 12 months, then compile this information in the form of a chart or table.
- 6b. Sketch the phase and the daily position of the Moon, at the same hour and place, for four days in a row. Include landmarks on the horizon such as hills, trees, and buildings. Explain the changes you observe.

9. Find out about three career opportunities in astronomy. 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.

**What to bring to the program:**

- Bring your completed homework. It is OK if you cannot complete the homework before class. You can bring completed homework in at a later date for sign-off.
- Come prepared to discuss and present your homework. As we move from one topic to the next during class, scouts will be asked to present homework elements completed. It will be more important to prove that you have understood a requirement orally rather than just presenting written information.
- Bring your blue card signed off by your Troop Leader. (Riverbend does not have blue cards.)
- Bring/wear weather appropriate clothing/outerwear. We will not go outdoors in heavy rain or thunderstorms. Boy Scout uniform not required.
- Bring a pencil and pen.
- Bring a flashlight, if the program is held after dusk.
- Download the merit badge worksheets from [meritbadge.com](http://meritbadge.com) and bring these worksheets to class.
- Bring a water to drink.

**Work completed after the program:**

During the program, the merit badge counselor will do a demonstration or explain the process for completing the final merit badge requirements. Your scout must provide evidence of completion in order to obtain blue card sign-off. Digital photographs of your scout doing the element and a picture of the completed requirement will be sufficient evidence, unless otherwise stated.

If your scout needs blue card sign-off after the class date, please call 703-759-9018 to arrange a time to meet with a merit badge counselor.

We're looking forward to working with your scout.

Riverbend Park  
703-759-9018  
8700 Potomac Hills Street  
Great Falls, VA 22066  
<http://www.fairfaxcounty.gov/parks/riverbend-park/>