Reptile and Amphibian Study

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet.

The work space provided for each requirement should be used by the Scout to make notes for discussing the item with his counselor, not for providing the full and complete answers. Each Scout must do each requirement.

No one may add or subtract from the official requirements found in **Boy Scout Requirements** (Pub. 33216 – SKU 34765).

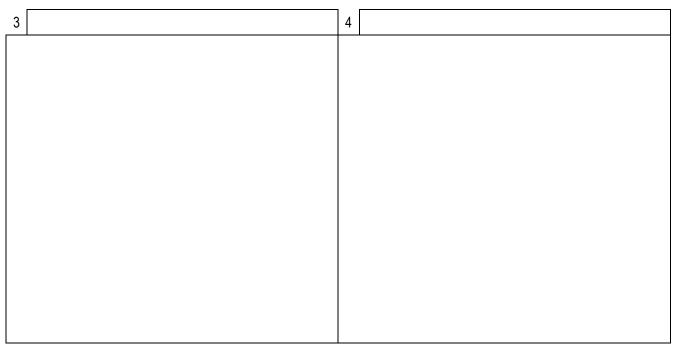
The requirements were last issued or revised in 2006 • This workbook was updated in January 2014.

| Sc | out's Name: | | | Unit: | |
|-------------------|---------------------|--|---|--|-------------|
| Counselor's Name: | | | | Counselor's Phone No.: | |
| | | bmit errors, omissions | | ons about this workbook to: Workbooks@USScouts.Org | |
| | Comments or su | ggestions for changes | to the <u>requirements</u> for | the merit badge should be sent to: Merit.Badge@Scout | ing.Org |
| 1. | For any four of the | ese, make sketches cs that are importan | from your own observa t in the identification of | iles and four species of amphibians found in the Uni ations or take photographs. Show markings, color p f each of the four species. Discuss the habits and h | atterns, or |
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| For any four of these, make sketche other characteristics that are import | es from your own observations or take photographs. Show markings, color patterns, or eart in the identification of each of the four species. | | | |
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2. Discuss with your merit badge counselor the approximate number of species and general geographic distribution of reptiles and amphibians in the United States.



3.

Amphibians

Prepare a list of the most common species found in your local area or state.

Reptiles

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| De | scribe the main differences b | petween: | |
| a. | Amphibians and reptiles. | | |
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| b. | Alligators and crocodiles. | | |
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| c. | Toads and frogs. | | |
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| d. | Salamanders and lizards. | | |
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| e. | Snakes and lizards. | | |
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| Explain how reptiles and | amphibians are an important component of the natural environment. |
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| | officially protected by the federal government or state you live in, and tell why each is protected |
| List three species of repti food habits of all ten spec Protected Species | |
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| Why protected? | |
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| Foodballia. | |
| Food habits: | |
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| Why protected? | |
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| Food habits: | |
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| Why protected? | |
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| Food habits: | |
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| 4. Species | |
| Why protected? | |
| Tilly protected. | |
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| Food habits: | |
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| Unprotected Reptiles | |
| 1. Species | |
| Food habits: | |
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| 2. Species | |
| Food habits: | |
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| Reptile | and Amphil | oian Study | Scout's Name: |
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| 3. | Species | | |
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| Unj | protected A | mphibians | |
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| Re | ptile and Amphibian Stu | udy Scout's Name: |
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| | | escribe how snakes move forward. |
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| | Describe the function | s of the muscles, ribs, and belly plates. |
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| 7. | Describe in detail six geographic range. | venomous snakes and the one venomous lizard found in the United States. Describe their habits and |
| | Venomous Snake 1 | |
| | Description: | |
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| | Habits: | |
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| | Range: | |
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| | Venomous Snake 2 | |
| | Description: | |
| | Description. | |
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| | Habits: | |
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| Reptile and Amphibian Stud | dy | Scout's Name: |
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| Venomous Snake 3 | | |
| Description: | | |
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| Habits: | | |
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| Range: | | |
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| Venomous Snake 4 | | |
| Description: | | |
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| Habits: | | |
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| Range: | | |
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| Venomous Snake 5 | | |
| Description: | | |
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| Habits: | | |
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| Range: | | |
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| Venomous Snake 6 | |
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| Habits: | |
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| Venomous Lizard | |
| Description: | |
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| Habits: | |
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| Barrara | |
| Range: | |
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| Tell what you should do in case of a bite by a venor | mous species |
| Ten what you should do in case of a bite by a verice | Tious species. |
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| Reptile and Amphibian Study | | | Scout's Name: | | | | | | |
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| 8. | Do ONE of the following: | | | | | | | | |
| | ☐ a. | change: until hat | s in coloration, shedd | ling of skins ggs of an an | pians for at least a month. Record the food accepted, eating methods, s, and general habits; or keep the eggs of a reptile from the time of laying apphibian from the time of laying until their transformation into tadpoles | | | | |
| | | Reptile(s) or Amphibian(s) Maintained: | | | | | | | |
| | | Dates: | | | | | | | |
| | | Day | Food Accepted | Eating N | /lethods | Color Changes | Skin Shedding | General Habits | |
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| □ b. | Choose a reptile or amphibian that you can observe at a local zoo, aquarium, nature center, or other such exhibit (such as your classroom or school). Study the specimen weekly for a period of three months. At each visit, sketch the specimen in its captive habitat and note any changes in its coloration, shedding of skins, and general habits and behavior. Find out, either from information you locate on your own or by talking to the caretaker, what this species eats and what are its native habitat and home range, preferred climate, average life expectancy, and natural predators. Also identify any human caused threats to its population and any laws that protect the species and its habitat. After the observation period, share what you have learned with your counselor. | | | | | |
| | (Npte: Make your sketches on separate pages and attach them to the workbook.) | | | | | |
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| Do TWC ☐ a. | O of the following: Identify at night three kind | e of toade or from by the | ir voices Imitate the | song of each for your | counselor Stalk each | |
| <u> </u> | with a flashlight and disco | ver how each sings and f | from where. | sorig of each for your t | Couriscior. Clark each | |
| ☐ b. | Identify by sight eight spe | • | | | | |
| C. | Using visual aids, give a brief talk to a small group on three different reptiles and amphibians. | | | | | |
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| Sup | erstition | Explanation |
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| Give seven examples o | f unusual behavior or other true facts | about reptiles and amphibians. |
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Scout's Name: _____

NOTE: Scouts must not use venomous reptiles in fulfilling requirement 8a. Species listed by federal or state law as endangered, protected, or threatened must not be used as live specimens in completing requirement 8a unless official permission has been given. In most cases, all specimens should be returned to the wild at the location of capture after the requirement has been met. Check with your merit badge counselor for those instances where the return of these specimens would not be appropriate.

Under the Endangered Species Act of 1973, some plants and animals are, or may be, protected by federal law. The same ones and/or others may be protected by state law. Be sure that you do not collect protected species.

Your state may require that you purchase and carry a license to collect certain species. Check with the wildlife and fish and game officials in your state regarding species regulations before you begin to collect.

Requirement resources can be found here:

http://www.meritbadge.org/wiki/index.php/Reptile and Amphibian Study#Requirement resources

Reptile and Amphibian Study

Important excerpts from the Guide To Advancement - 2013, No. 33088 (SKU-618673)

[1.0.0.0] — Introduction

The current edition of the *Guide to Advancement* is the official source for administering advancement in all Boy Scouts of America programs: Cub Scouting, Boy Scouting, Venturing, and Sea Scouts. It replaces any previous BSA advancement manuals, including *Advancement Committee Policies and Procedures*, *Advancement and Recognition Policies and Procedures*, and previous editions of the *Guide to Advancement*.

[Page 2, and 5.0.1.4] — Policy on Unauthorized Changes to Advancement Program

No council, committee, district, unit, or individual has the authority to add to, or subtract from, advancement requirements. There are limited exceptions relating only to youth members with special needs. For details see section 10, "Advancement for Members With Special Needs".

[Page 2] — The "Guide to Safe Scouting" Applies

Policies and procedures outlined in the *Guide to Safe Scouting*, No. 34416, apply to all BSA activities, including those related to advancement and Eagle Scout service projects.

[7.0.3.1] — The Buddy System and Certifying Completion

A youth member must not meet one-on-one with an adult. Sessions with counselors must take place where others can view the interaction, or the Scout must have a buddy: a friend, parent, guardian, brother, sister, or other relative—or better yet, another Scout working on the same badge—along with him attending the session.

When the Scout meets with the counselor, he should bring any required projects. If these cannot be transported, he should present evidence, such as photographs or adult verification. His unit leader, for example, might state that a satisfactory bridge or tower has been built for the Pioneering merit badge, or that meals were prepared for Cooking. If there are questions that requirements were met, a counselor may confirm with adults involved. Once satisfied, the counselor signs the blue card using the date upon which the Scout completed the requirements, or in the case of partials, initials the individual requirements passed.

Note that from time to time, it may be appropriate for a requirement that has been met for one badge to also count for another. See "Fulfilling More Than One Requirement With a Single Activity," 4.2.3.6.

[7.0.3.2] — Group Instruction

It is acceptable—and sometimes desirable—for merit badges to be taught in group settings. This often occurs at camp and merit badge midways or similar events. Interactive group discussions can support learning. The method can also be attractive to "guest experts" assisting registered and approved counselors. Slide shows, skits, demonstrations, panels, and various other techniques can also be employed, but as any teacher can attest, not everyone will learn all the material.

There must be attention to each individual's projects and his fulfillment of *all* requirements. We must know that every Scout —actually and *personally*— completed them. If, for example, a requirement uses words like "show," "demonstrate," or "discuss," then every Scout must do that. It is unacceptable to award badges on the basis of sitting in classrooms *watching* demonstrations, or remaining silent during discussions. It is sometimes reported that Scouts who have received merit badges through group instructional settings have not fulfilled all the requirements. To offer a quality merit badge program, council and district advancement committees should ensure the following are in place for all group instructional events.

- Merit badge counselors are known to be registered and approved.
- Any guest experts or guest speakers, or others assisting who are not registered and approved as merit badge counselors, do not accept the
 responsibilities of, or behave as, merit badge counselors, either at a group instructional event or at any other time. Their service is temporary, not
 ongoing.
- Counselors agree not to assume prerequisites have been completed without some level of evidence that the work has been done. Pictures and
 letters from other merit badge counselors or unit leaders are the best form of prerequisite documentation when the actual work done cannot be
 brought to the camp or site of the merit badge event.
- There is a mechanism for unit leaders or others to report concerns to a council advancement committee on summer camp merit badge programs, group instructional events, and any other merit badge counseling issues—especially in instances where it is believed BSA procedures are not followed. See "Reporting Merit Badge Counseling Concerns," 11.1.0.0.
- There must be attention to each individual's projects and his fulfillment of all requirements. We must know that every Scout—actually and personally—completed them.

[7.0.3.3] — Partial Completions

A Scout need not pass all the requirements of one merit badge with the same counselor. It may be that due to timing or location issues, etc., he must meet with a different counselor to finish the badge. The Application for Merit Badge has a place to record what has been finished—a "partial." In the center section on the reverse of the blue card, the counselor initials for each requirement passed. In the case of a partial completion, the counselor does not retain his or her portion of the card. A subsequent counselor may choose not to accept partial work, but this should be rare. A Scout, if he believes he is being treated unfairly, may work with his unit leader to find another counselor. An example for the use of a signed partial would be to take it to camp as proof of prerequisites. Partials have no expiration except the Scout's 18th birthday. Units, districts, or councils shall not establish other expiration dates for partial merit badges.

[7.0.4.8] — Unofficial Worksheets and Learning Aids

Worksheets and other materials that may be of assistance in earning merit badges are available from a variety of places including unofficial sources on the Internet and even troop libraries. Use of these aids is permissible as long as the materials can be correlated with the current requirements that Scouts must fulfill. Completing "worksheets" may suffice where a requirement calls for something in writing, but this would not work for a requirement where the Scout must discuss, tell, show, or demonstrate, etc. Note that Scouts shall not be required to use these learning aids in order to complete a merit badge.