## Reptile and Amphibian Study

## Merit Badge Workbook

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

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor

## Merit Badge Counselors may not require the use of this or any similar workbooks.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show",

"tell", "explain", "demonstrate", "identify", etc, that is what you must do.

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub.# 33216) and/or on Scouting.org.

The requirements were last issued or revised in 2023 • This workbook was updated in February 2024.

| Scc               | out's Name:                           | Unit                              | Date Started   |
|-------------------|---------------------------------------|-----------------------------------|--|
| Counselor's Name: |                                       | Phone No.:                        | Email:   |
| C                 | omments or suggestions for changes to | the <u>requirements</u> for the   | about this workbook to: Workbooks@USScouts.Org e merit badge should be sent to: Merit.Badge@Scouting.Org   |
| 1.                | For any four of these, make sketches  | from your own observation of each | and four species of amphibians found in the United States. ns or take photographs. Show markings, color patterns, or ach of the four species. Discuss the habits and habitats of all |
|                   | Species                               |                                   |  |
|                   | Identifying Characteristics           |                                   |  |
|                   | Habits:                               |                                   |  |
|                   | Habitat:                              |                                   |  |

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| Reptile and Amphibian Study | Scout's Name: |
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| Habits:                     |               |
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| Reptile and Amphibian Study         | Scout's Name: |  |  |
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| Habits:                             |               |  |  |
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| Habitat:                            |               |  |  |
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| <u>Amphibians</u>                   |               |  |  |
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| Habits:                             |               |  |  |
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| Habitat:                            |               |  |  |
| Habitat.                            |               |  |  |

| Reptile and Amphibian Study | Scout's Name: |  |  |
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| Identifying Characteristics |               |  |  |
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| Habits:                     |               |  |  |
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| Habitat:                    |               |  |  |
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| <b>2</b> .                  |               |  |  |
| Species                     |               |  |  |
| Identifying Characteristics |               |  |  |
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| Habitat:                    |               |  |  |
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| Species                     |               |  |  |
| Identifying Characteristics |               |  |  |
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| Habits:                     |               |  |  |
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| Habitat:                    |               |  |  |
|                             |               |  |  |

Scout's Name:

For any four of these, make sketches from your own observations or take photographs. Show markings, color patterns, or other characteristics that are important 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.



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

| Reptiles | Amphibians |  |
|----------|------------|--|
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| Reptile and Amphibian Study         |    |                              | Scout's Name:  |  |  |
|-------------------------------------|----|------------------------------|--|--|--|
| 3. Describe the main differences be |    |                              | petween:   |  |  |
|                                     | a. | Amphibians and reptiles.     |  |  |  |
|                                     | b. | Alligators and crocodiles.   |  |  |  |
|                                     | C. | Toads and frogs.             |  |  |  |
|                                     | d. | Snakes and lizards.          |  |  |  |
| 4.                                  | Ex | plain how reptiles and amphi | bians are an important component of the natural environment. |  |  |
|                                     |    |                              |  |  |  |
|                                     |    |                              |  |  |  |
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| eptile and Amphibian Study  List four species that are officially protected by the fodor |   |               | Scout's Name:  |
|--|---|---------------|--|
| hre  | t four spec<br>ee species<br>all ten spec | of reptiles a | officially protected by the federal government or state you live in, and tell why each is protected. Lis<br>and three species of amphibians found in your local area that are not protected. Discuss the food ha |
| ro   | tected Sp                                 | ecies         |  |
|  | Species                                   |               |  |
|  | Why <sub>l</sub>                          | protected?    |  |
|  |   |               |  |
|  |   |               |  |
|  | Food                                      | habits:       |  |
|  |   |               |  |
|  |   |               |  |
|  |   |               |  |
|  | Species                                   |               |  |
|  | -   | protected?    |  |
|  |   |               |  |
|  |   |               |  |
|  | Food                                      | habits:       |  |
|  |   |               |  |
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|  |   |               |  |
|  |   |               |  |
|  | Species                                   |               |  |
|  | Why                                       | protected?    |  |

Food habits:

| Reptile | and Amph  | nibian Study | Scout's Name: |
|---------|-----------|--------------|---------------|
| 4.      | Species   |              |               |
|         |           | protected?   |               |
|         |           |              |               |
|         |           |              |               |
|         |           |              |               |
|         | Food      | l habits:    |               |
|         |           |              |               |
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|         |           | <b>-</b>     |               |
|         | protected | Reptiles     |               |
| 1.      | Species   | l babita:    | T             |
|         | F000      | I habits:    |               |
|         |           |              |               |
|         |           |              |               |
|         |           |              |               |
|         |           |              |               |
| 2.      | Species   |              |               |
|         | Food      | I habits:    |               |
|         |           |              |               |
|         |           |              |               |
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|         |           |              |               |
| 3.      | Species   |              |               |
|         | Food      | l habits:    |               |
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| Un      |           | Amphibian    | S             |
| 1.      | -         |              | т.            |
|         | Food      | l habits:    |               |
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| Reptile and Amphi                        | ibian Study               | Scout's Name:         |
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| 2. Species Food                          | habits:                   |                       |
| 3. Species Food                          | habits:                   |                       |
| 5. Compare how<br>Reptiles<br>Amphibians | reptiles reproduce to how | amphibians reproduce. |
|  | tion, describe how snakes |                       |

| 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:                             |   |
|    |  |   |
|    |  |   |
|    | Habits:                                  |   |
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|    |  |   |
|    |  |   |
|    | Range:                                   |   |
|    |  |   |
|    |  |   |
|    |  |   |
|    | Venomous Snake 2                         |   |
|    | Description:                             |   |
|    |  |   |
|    |  |   |
|    | Habits:                                  |   |
|    |  |   |
|    |  |   |
|    |  |   |
|    | Range:                                   |   |
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|    | Venomous Snake 3                         |   |
|    | Description:                             |   |
|    |  |   |
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|    | Habits:                                  |   |
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|    |  |   |
|    |  |   |
|    | Range:                                   |   |
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Reptile and Amphibian Study

Scout's Name:

| Reptile and Amphibian Stu | udy | Scout's Name: |
|---------------------------|-----|---------------|
| •                         |     | <br>          |
| Venomous Snake 4          |     |               |
| Description:              |     |               |
|                           |     |               |
|                           |     |               |
| Habits:                   |     |               |
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|                           |     |               |
|                           |     |               |
| Range:                    |     |               |
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| Venomous Snake 5          |     |               |
| Description:              |     |               |
|                           |     |               |
|                           |     |               |
| Habits:                   |     |               |
|                           |     |               |
|                           |     |               |
|                           |     |               |
| Range:                    |     |               |
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| Venomous Snake 6          |     |               |
| Description:              |     |               |
| Booonphon.                |     |               |
|                           |     |               |
| Habits:                   |     |               |
| riabits.                  |     |               |
|                           |     |               |
|                           |     |               |
| Dango                     |     |               |
| Range:                    |     |               |
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| Reptile and Amphibian Study |   |                        |   | Scout's Name: |               |                |  |
|-----------------------------|---|------------------------|---|---------------|---------------|----------------|--|
| Venome                      | ous Lizar   | <sup>-</sup> d         |   |               |               |                |  |
| De                          | scription   | :                      |   |               |               |                |  |
|                             |   |                        |   |               |               |                |  |
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| Ha                          | bits:   |                        |   |               |               |                |  |
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| Ra                          | nge:  |                        |   |               |               |                |  |
|                             |   |                        |   |               |               |                |  |
|                             |   |                        |   |               |               |                |  |
| Tell wha                    | at you sh   | ould do in case of a b | ite by a venomous                       | species.      |               |                |  |
|                             |   |                        |   |               |               |                |  |
|                             |   |                        |   |               |               |                |  |
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|                             |   |                        |   |               |               |                |  |
| 8. Do ONE of the following: |   |                        |   |               |               |                |  |
| □ a.                        | a. Maintain one or more reptiles or amp   |                        |   |               |               |                |  |
|                             | coloration, shedding of skins, and general habits; or keep the eggs of a reptile from the time of laying unkneep the eggs of an amphibian from the time of laying until their transformation into tadpoles (frogs) or |                        |   |               |               |                |  |
|                             | (salamanders). Whichever you chose, keep records of and report to your counselor how you cared for  |                        |   |               |               | ared for your  |  |
|                             | animal/eggs/larvae to include lighting, habitat, temperature and humidity maintenance, and any veterinary care requirements.  (See the note on page 15regarding this requirements)                                    |                        |   |               |               |                |  |
|                             | Reptile(s) or Amphibian(s) Maintained:  |                        |   |               |               |                |  |
|                             | Dates:  |                        |   |               |               |                |  |
|                             | Day   | Food Accepted          | Eating Methods                          | Color Changes | Skin Shedding | General Habits |  |
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|                             | 5   |                        |   |               |               |                |  |
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| and Amphibian Study          |   | Scout's Name:   |  |   |  |  |  |
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| 10                           |   |   |  |   |  |  |  |
| 11                           |   |   |  |   |  |  |  |
| 12                           |   |   |  |   |  |  |  |
| 13                           |   |   |  |   |  |  |  |
| 14                           |   |   |  |   |  |  |  |
| 15                           |   |   |  |   |  |  |  |
| 16                           |   |   |  |   |  |  |  |
| 17                           |   |   |  |   |  |  |  |
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| 19                           |   |   |  |   |  |  |  |
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| 27                           |   |   |  |   |  |  |  |
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| 30                           |   |   |  |   |  |  |  |
| 31                           |   |   |  |   |  |  |  |
| your o<br>in its o<br>with y | classroom or school).   | Study the specimen we<br>e any changes in its co<br>animal you observed<br>vere maintained, and a | eekly for a period of th<br>oloration, shedding of s<br>was cared for to includ<br>ony veterinary care req | ree months. At each waskins, and general hab<br>le its housing and habi<br>uirements. |  |  |  |
|                              | (Note: Make your sketches on separate pages and attach them to the workbook.) |   |  |   |  |  |  |
|                              |   |   |  |   |  |  |  |
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Reptile and Amphibian Study

| Re   | eptile and | d Amphibian Study                                      | Scout's Name:   |  |  |  |
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|      |            | are its native habitat and home range, preferred       | our own or by talking to the caretaker, what this species eats and what climate, average life expectancy, and natural predators. Also identify any laws that protect the species and its habitat. After the observation period, or. |  |  |  |
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| ^    | D - T\//   | NO of the fellowing                                    |   |  |  |  |
| 9. [ | Do TWC     |  | heir voices. Imitate the song of each for your counselor. Stalk each with   |  |  |  |
|      |            | a flashlight and discover how each sings and fro       | m where.  |  |  |  |
|      |            | ☐ 2.   |   |  |  |  |
|      |            | □ 3.   |   |  |  |  |
|      |            |  | nibians.  |  |  |  |
|      |            | ☐ 1. ☐   |   |  |  |  |
|      |            | ☐ 2. ☐   |   |  |  |  |
|      |            |  |   |  |  |  |
|      |            |  |   |  |  |  |
|      |            |  |   |  |  |  |
|      |            | ☐ 6. ☐ 7   |   |  |  |  |
|      |            | ☐ 7. ☐ 8.  |   |  |  |  |
|      | □ c.       |  | up on three different rentiles and amphibians   |  |  |  |
|      | <u> </u>   | . Using visual alus, give a brief talk to a small grot | ap on three different reptiles and amphibians.  |  |  |  |
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|            | Superstition               |                                  | Explanation           |   |
|------------|----------------------------|----------------------------------|-----------------------|---|
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|            |                            |                                  |                       |   |
| live seven | examples of unusual behavi | or or other true facts about rep | tiles 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. When you decide keeping your specimen is no longer possible or desired, be sure to find another appropriate home for it or return it to the wild at the location of capture. 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.

When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088).Important excerpts from that publication can be downloaded from <a href="http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf">http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf</a>.

You can download a complete copy of the Guide to Advancement from http://www.scouting.org/filestore/pdf/33088.pdf.

Reptile and Amphibian Study

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