

Bobbitt's Corner

Spore Prints

Materials: Wild mushrooms freshly cut(supermarket kind will not work), paper, bowl.

Cut the cap off a mushroom. Put it down on paper. Cover the mushroom and paper with the bowl and leave overnite. The next day, you will have a spore print. To preserve it, spray carefully with a clear, acrylic spray.

Peepers and Leapers

Purpose:

To become aware of the diverse populations of frogs in Kentucky.

Academic Expectations:

1.1,1.2,1.3,1.9,1.10,2.17,2.18, 2.19, 2.20, 2.21, 2.22, 2.25, 2.27, 2.29, 2.32,2.35,2.36,2.37,2.49,2.52,2.53,2.54, 3.55, 3.57, 3.58, 3.60, 3.61, 4.63, 4.64, 4.65, 4.66, 4.67, 5.68, 5.69, 5.70, 5.71, 5.72, 6.73, 6.74, 6.75.

Objectives

- 1. Compare 2 life cycles of different frog species
- 2. Distinguish various frog habitats
- 3. Recognize the ecological role of native frogs.

Vocabulary

amphibian: any of a class of vertebrates, including frogs, toads,

newts, and salamanders that usually begin life in water as tadpoles with gills and later develop lungs; they are

cold-blooded and scaleless.

aquatic: growing in, living in or frequenting water. **arboreal**: living in trees or adapted for living in trees.

frogs: any of a large group of tailless, leaping amphibians

with long powerful hind legs, short forelegs, a smooth

skin and webbed feet.

salamander: any of a group of tailed amphibians related to frogs

and toads, with soft, moist skin.

tadpoles: the larva of certain amphibians, as frogs and toads,

having gills and a tail and living in water.

toads: any of a group of tailless leaping amphibians with

rough, warty skin, that eats insects, and lives on moist land rather than in water, except during the breeding

season.

Lab Sheets

- 1. Comparison of Life Cycles
- 2. Kentucky Frogs and Toads

Outcomes

Given the lists provided, draw and identify the various frogs and toads found in Kentucky using field guides.

Develop a predator list of native Kentucky animals which may depend upon frogs as a part of their diet.

Comparison of the life cycles of the American Toad (Bufo americanus) and the Spring Peeper (Hyla crucifer)

LAB SHEET I

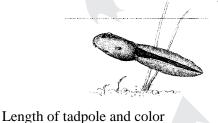
American Toad Bufo americanus

Characteristics - known as the "hoptoad" of the Northeast, usually brown but females can vary in pattern. Only one or two large warts in each of the largest dark spots on back.

Breeding time - 1st week in April to last week in July

Tadpoles become adults 1st week in June to August 50-65 days

1 1/2 inches-dark almost black



Eggs - long spiral tubes of jelly, found submerged in quiet pools, 4,000-8,000 eggs laid at a time

Hatching timeegg to tadpole 3-12 days

Spring Peeper Hyla crucifer

Characteristics: small x on back, can be brown to greenish, found in woodlands, small ponds. Forms small choral groups heard in Spring.

Tadpoles become adults 1st of July to 1st of August -90-100 days



Breeding time -1st week April to mid-June

Length of tadpole -1 1/3 inches

> Hatching time -Egg to Tadpole -7 - 10 days

Eggs - laid in singles found submerged, near bottom of pond on plants. 800-1,000 are laid at a time, color of eggs are creamy brown or black

Kentucky Frogs and Toads

LAB SHEET 2

There are 20 species of frogs and toads found in Kentucky. The following is a list compiled by the late Dr. Burt Monroe, Jr.

Eastern american toad Fowler's toad Eastern narrowmouth frog Blanchard's cricket frog Bird-voiced treefrog Cope's gray treefrog Green treefrog Northern spring peeper Barking treefrog Gray treefrog Mountain chorus frog Upland chorus frog Northern crawfish frog **Bullfrog** Green frog Pickerel frog Northern leopard frog Southern leopard frog Wood frog Eastern spadefoot

Main differences between toads and frogs:

- 1. Toads have rough and bumpy skin, frogs are smooth and shiny.
- 2. Toads' eggs are laid in strings, frogs'eggs are laid in masses.
- 3. Toads hibernate in the ground, many frogs hibernate in mud, ponds and lakes.
- 4. Toads generally feed at night, most frogs feed during the day.