

# Thirsty Thursday - Aquatic Ecology Challenge



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\* Required

Take the "Natural Challenge" with this quiz for the Aquatic Ecology Station, brought to you by the Pennsylvania Envirothon!



Please enter your name: \*

Your answer

Please enter your school name: \*

Your answer

Please enter the county you would have represented at this year's Envirothon): \*

Your answer



I certify that I will uphold honesty and integrity for this online challenge by 0 points not using internet, print, or any other outside resource to answer these questions.\*

I will

1. Identify the common name of this animal:

5 points



- Northern Cricket Frog
- Northern Leopard Frog
- Eastern American Toad
- Fowler's Toad



2. Identify the common name of this animal:

5 points



- Wood Frog
- Northern Cricket Frog
- Northern Spring Peeper
- Pickerel Frog



3. Identify the common name of this animal:

5 points



- Red-spotted Newt
- Spotted Salamander
- Jefferson Salamander
- Longtail Salamander



4. Identify the common name of this animal:

5 points



- Eastern Hog-nosed Snake
- Eastern Milk Snake
- Eastern Massasauga
- Northern Watersnake



5. Identify the common name of this animal:

5 points

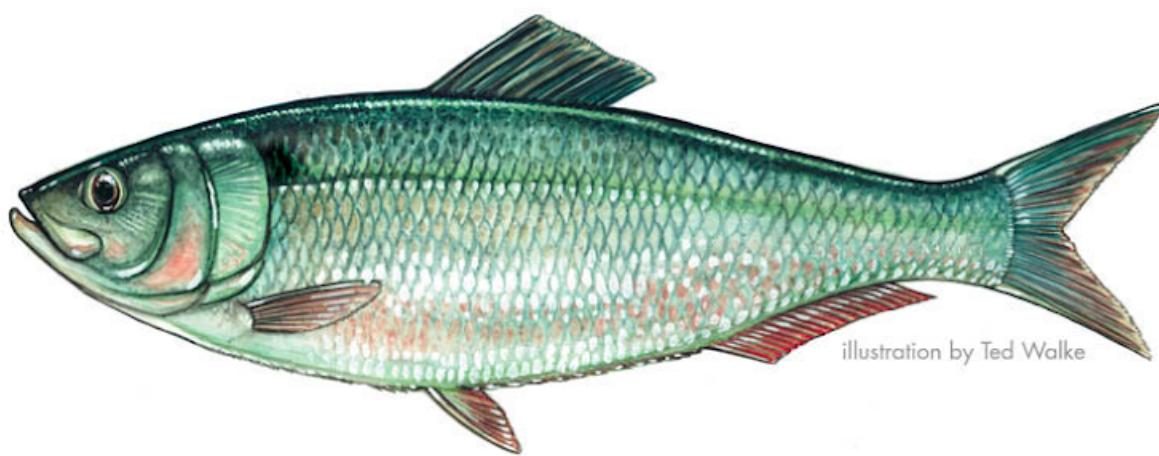


- Ribbon Snake
- Smooth Earth Snake
- Queen Snake
- Eastern Wormsnake



6. Identify the common name of this animal:

5 points



- American Shad
- Smallmouth Bass
- White Perch
- Crappie



7. Identify the common name of this animal:

5 points



- Hickory Shad
- Small mouth Bass
- Bluegill
- Longear Sunfish



8. Identify the common name of this animal:

5 points

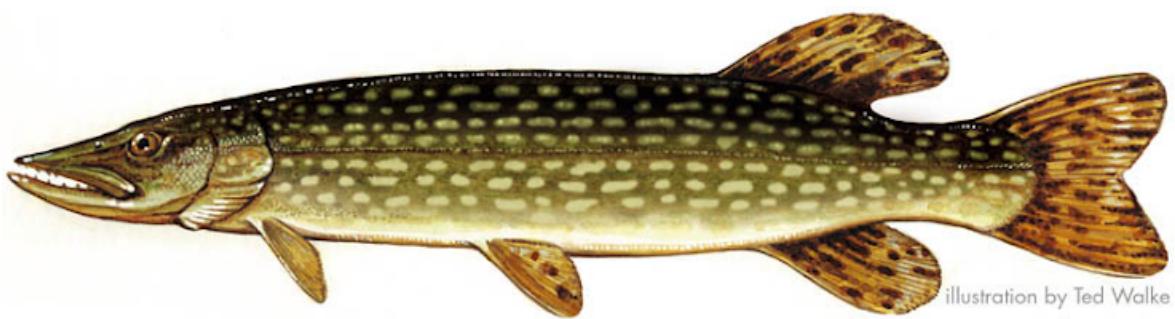


illustration by Ted Walke

- Alligator Gar
- Northern Pike
- Spotted Gar
- Burbot

9. Identify the common name of this animal:

5 points

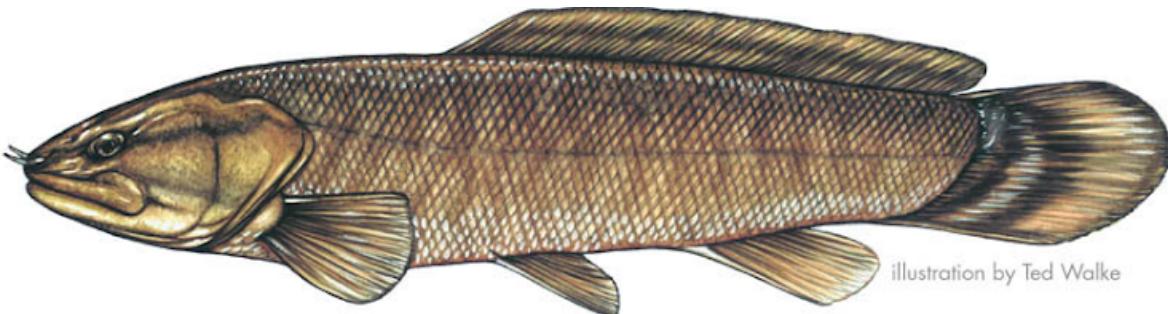


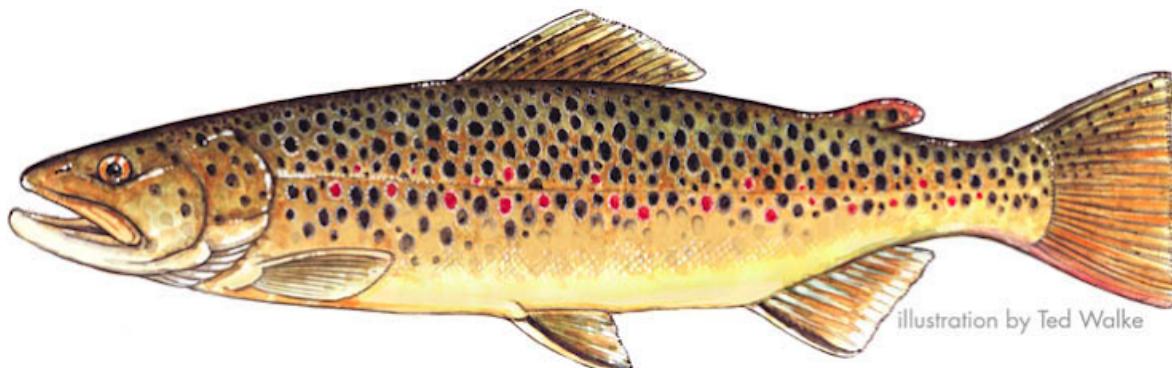
illustration by Ted Walke

- Flathead Catfish
- Burbot
- Northern Pike
- Bowfin



10. Identify the common name of this animal:

5 points



- Brook Trout
- Rainbow Trout
- Brown Trout
- Golden Rainbow Trout

11. What are Pennsylvania's six major watersheds?

5 points

- Erie, Ohio, Chemung, Potomac, Susquehanna, Delaware
- Erie, Ohio, Tioga, Potomac, Susquehanna, Delaware
- Erie, Ohio, Genesee, Potomac, Susquehanna, Delaware
- Erie, Allegheny, Genesee, Potomac, Susquehanna, Delaware



12. Which of the following choices best describes a stream with Alkalinity test results of 9 mg/l CaCO<sub>3</sub>? 5 points

- Limestone stream, not sensitive to acid precipitation.
- Freestone stream, very sensitive to acid precipitation.
- Freestone stream, somewhat sensitive to acid precipitation.
- Freestone stream, not sensitive to acid precipitation.

13. Which of the following statements is true? 5 points

- Acid rain is two times less acidic than natural rain.
- Acid rain is ten times less acidic than natural rain.
- Acid rain is two times more acidic than natural rain.
- Acid rain is ten times more acidic than natural rain.

14. What is the life cycle of a dobsonfly? 5 points

- Egg, nymph, adult
- Egg, larva, pupa, adult
- Egg, glochidia, cyst and adult
- Egg, leptocephalus, elver, adult



15. What is the functional feeding group of a black fly larva? 

5 points

- Predator
- Grazer
- Shredder
- Collector

16. What piece of equipment would a fisheries manager use to complete an American shad survey on a river?

5 points

- Hoop net
- Pennsylvania-style trap net
- Gill net
- Benthic trawl

17. Which of the following options best describes the temperature preference of a fish community that includes smallmouth bass, creek chubs and white suckers?

5 points

- Coldwater
- Coolwater
- Warmwater
- Hotwater



18. Which seasons, sizes and creel limits would apply to channel catfish being caught out of a lake? 5 points

- April 18 through September 7, 7 inches, 5 combined species
- June 13 through October 31, 12 inches, 6 combined species
- Open year-round, 9 inches, 25 combined species
- Open year-round, no minimum, 50 combined species

19. Which of the following Classifications could the stream fall under if it is determined to be a Wild Trout Stream? 5 points

- Primary, Secondary, Tertiary or Quaternary
- I, II, III or IV
- 1, 2, 3 or 4
- Class A, Class B, Class C or Class D

20. What are the environmental impacts of the Round Goby in the Lake Erie watershed? 5 points

- Parasite to large game fish species
- Outcompetes native fish for food sources, habitat and spawning sites
- Uproots plants and creates enormous turbidity due to aggressive bottom feeding behavior
- Displaces native mussel species and invertebrates and impacts water quality



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