

York County  
**ENVIROTHON**  
2023 Aquatics Resources for 3<sup>rd</sup> & 4<sup>th</sup> Grades  
Ponds and Lakes



**Testing Resources:**

1. Ponds & Lakes
2. Seasons of a Pond (fishing tips) – PLAY
3. Sunfish Family – PLAY (p. 1-5)
4. Yellow Perch – PLAY (All About Perch p. 3)
5. Chain Pickerel – PLAY (All About Pike p. 3)
6. PA Handsome Hoppers – PLAY (p. 1-5)
7. Fun with Frogs – Frog Sounds – YouTube: Learning the Frog Sounds of Calvert County, Maryland (disregard green tree frog) - <https://www.youtube.com/watch?v=aPIWrEl84-I>
8. Where Do They Go in Winter? – PLAY (p. 1-6)
9. A Day at the Lake – PLAY

**Aquatics Study Species:**

- Fish
  - Yellow Perch
  - Walleye
  - Chain Pickerel
  - Northern Pike
  - Muskellunge
  - Bluegill
  - Smallmouth Bass
  - Largemouth Bass
- Amphibians
  - Bullfrog
  - Wood frog
  - Spring peeper
  - Northern green frog
  - Eastern American toad

**Focus:**

- Know key features of Ponds & Lakes (habitat zones, aquatic plant location/benefits)
- Understand a simple water cycle and simple food web (or energy cycle)
- Be able to identify creatures found in pond/lake by live sample, photo, drawing or mounted specimen
- Familiarize yourself with all study resources. If it is in the study resources, expect to be asked a question about it.
- Does spelling count? It might be the only way to break a tie, and is it fair to give credit to the team that spells “Phosphorus” correct and the team that spells it “Fosforus?” Tell your students to do their best with spelling.

**Sample Questions:**

Which amphibian has dry skin that is bumpy and warty

- a. Frogs
- b. Toads**
- c. Salamanders

Green plants convert the sun’s energy (it’s heat) into food during what process?

- a. Photosynthesis**
- b. Condensation

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