

"Fish in the Zone"—Teachers Guide

Study Questions

Teachers guide for the Young Naturalists article "Fish in the Zone?" by Roland Sigurdson, illustrated by Tom Foty. Published in the May–June 2012 *Minnesota Conservation Volunteer*, or visit www.mndnr.gov/young_naturalists/limnology

1. Throughout the year, fish may be found in different places or _____ in a lake.
2. Fish move to find _____ and _____.
3. Fish also move as they grow because _____

4. Why do yellow perch move into the littoral zone to lay their eggs? _____

5. Look at the illustrations on pages 48–49. Compare and contrast emergent, submergent, and floating-leaf aquatic plants. _____

6. Why do you think the clarity of the water affects the depth of the littoral zone? _____

7. Larval perch move out of the littoral zone to the _____ zone to escape _____.
8. Larval perch may eat _____, but prefer to eat _____, such as _____, _____, and _____.
9. As they grow, larval perch move into the _____ zone.
10. Green plants cannot grow in deep water because _____

11. What time of day do larval perch hunt for midge larvae? Why? _____

12. Explain where and why juvenile perch migrate in mid-June. _____

13. Where do perch spend the winter? _____

14. Use the diagram on page 52 to help explain the difference between fall and spring turnover. _____

15. The author states, "With luck, the perch might live nine more springs." What do you think he means? _____

16. If you were a limnologist, what questions might you ask? _____

Challenge: What is the difference between zones and layers in a lake? _____
