

Teaching Guide for

Fish Hotel

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Ideas for grades 1-5



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Age Level	Grades 1-5	
Time Needed	40 minutes + optional activities and videos	
Goal	Students learn about the role of trees in the water as part of lake and river ecosystems. Fallen trees provide shelter and food for fish and aquatic insects (fish food), plus basking and hunting sites for many other animals.	
Materials	<i>Fish Hotel</i> (30-page hardcover fiction book) Optional <i>Fish Hotels</i> (20-page softcover non-fiction book) Optional PowerPoint presentations at uwsp.edu/cnr-ap/clue/Pages/Fish-Hotel-Kit.aspx	
Vocabulary	Aquatic plant – A plant that grows in water. Aquatic insect – Insects that live in the water during at least part of their lives. Aquatic insects are food for fish, frogs, and birds. Habitat – The place where an animal lives that provides food, water, shelter, and space. Shoreline - The line where a body of water and the shore meet.	
Standards	Wisconsin Science Standards <u>Crosscutting Concepts</u> Systems and system models <ul style="list-style-type: none"> ○ SCI.CC4.K-2 ○ SCI.CC4.3-5 Structure and function <ul style="list-style-type: none"> ○ SCI.CC6.K-2 ○ SCI.CC6.3-5 <u>Science and Engineering Practices</u> Construct explanations and design solutions <ul style="list-style-type: none"> ○ SCI.SEP6.A.K-2 ○ SCI.SEP6.A.3-5 <u>Disciplinary Core Ideas</u> Life Science 1 – Structures and processes SCI.LS1.B.1 SCI.LS1.B.3 SCI.LS1.C.K SCI.LS1.C.5 Life Science 2 – Interactions, energy and dynamics within ecosystems SCI.LS2.A.5 SCI.LS2.C.3	Wisconsin Standards for English Language Arts <u>Reading</u> Key ideas and details <ul style="list-style-type: none"> ○ Anchor standard R1 ○ Anchor standard R2 ○ Anchor standard R3 Integration of knowledge and ideas <ul style="list-style-type: none"> ○ Anchor standard R7
Educator Prep	Look at book, teaching guide questions, and <u>Shorelines</u> PowerPoint for Step 5 if using	



1. Questions to discuss before the book reading (5 minutes)

- What does the title of the book tell us?
- What do you find at a hotel?
- How big is a fish when it hatches from its egg? A1
- What do fish need to survive? A2
- What is your favorite memory of a fish?

A1: About the size of a green pea

A2: Food: plants, aquatic insects, smaller fish, etc.

Shelter: trees, aquatic plants, and crevices between rocks

Water: suitable temperature and oxygen levels, not too polluted

2. Book reading options (10 minutes)

- Read the hardcover book
- Play the video of the book reading at [youtube.com/watch?v=TjNYsRFmvjc](https://www.youtube.com/watch?v=TjNYsRFmvjc)
- Read the book from the PowerPoint at uwsp.edu/cnr-ap/clue/Pages/Fish-Hotel-Kit.aspx



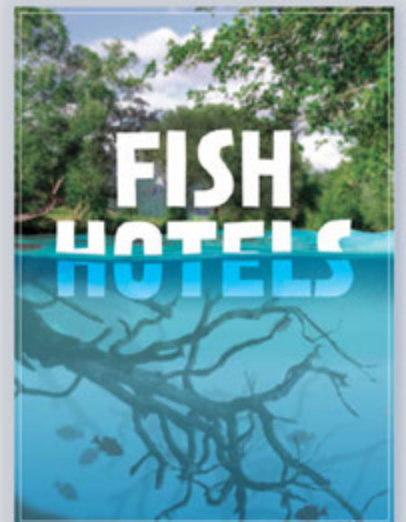
3. Questions to discuss during or after the book reading (10 minutes)

- What differences do you see between the beach (page 8) and the fallen poplar trees (page 9)?
- If you were a small fish, would you want to live in the water by the beach or the poplar trees? Why?
- Why do you think people take trees out of a lake?
- What happens to fish when people take trees out of a lake?
- What animals do you see on or near the fish hotel? A3
- Why do you think these animals are there?

A3: otter, turtles, great blue heron, people fishing, and kingfisher

4. Optional - Have students in grades 3-5 read non-fiction softcover *Fish Hotels* (10 minutes)

- Turn and talk to a classmate to summarize what they learned. (2 minutes)





5. Apply what you have learned (2 options)

- Show and discuss Shorelines PowerPoint at uwsp.edu/cnr-ap/clue/Pages/Fish-Hotel-Kit.aspx (15 minutes)
 - Are there fish hotels (fallen trees) and aquatic plants for shelter?
 - Are there trees along the shoreline that will become fish hotels in the future?
 - Are there trees along the shoreline to shade the water and keep it cool so fish have enough oxygen? Cold water holds more oxygen than warm water.
 - What can you do to help fish? See summary slide.
- Ask students to write a word or phrase about fish hotels and illustrate it. (10 minutes) See examples at www.mrknightart.com/graphic-design/assignments-pg-3/8-0-illustrated-words/ Ask students to explain their illustration.

Video options after reading *Fish Hotel*



Fish biologist in Michigan shows underwater fish footage and explains what people can do to help fish (7:00)

[youtube.com/watch?v=CA1CY5vUI10](https://www.youtube.com/watch?v=CA1CY5vUI10)



Engbretson Underwater Photography video of largemouth bass swimming through a large pine tree (0:30)

[youtube.com/watch?v=HPCgN-F_fto](https://www.youtube.com/watch?v=HPCgN-F_fto)



Fishing show talking about fish hotels (2:30)

[youtube.com/watch?v=7kURYFYxuSc](https://www.youtube.com/watch?v=7kURYFYxuSc)

