

Unit Matrix

The *Fishing: Get in the Habitat! MinnAqua Leader's Guide* is versatile and interdisciplinary. The lessons can be used alone, integrated into an existing curriculum or program, or several lessons can be combined to form a thematic unit or strand. To create your own unit, see the Topics Appendix, or use one lesson from each chapter, or try all of the lessons in one chapter. A unit or strand that culminates in a fishing trip is infused with extra excitement and relevance as students complete the lessons that develop skills and lead up to the big day at the water's edge!

Strand/Unit	Chapter 1: Aquatic Habitats	Chapter 2: Minnesota Fish	Chapter 3: Water Stewardship	Chapter 4: Fish Management	Chapter 5: Fishing Equipment & Skills	Chapter 6: Safety & the Fishing Trip
Active (Indoor/Outdoor)	1:2—Food Chain Tag, 1:3—Run For Your Life Cycle, &/or 1:5—Habitat Hideout	2:8—Fish in Winter	3:1—The Incredible Journey, 3:6—Macroinvertebrate Mayhem, &/or 3:7—Mussel Mania	4:1—Fishing Regulations & Sportsmanship (skits)	5:1—Freshwater Rods & Reels, 5:2—Casting a Closed—Face Rod & Reel Combo or 5:3—Pop Can Casting	6:1—Safety & Fishing at the Waters Edge &/or 6:2—Ice Fishing & Winter Safety
Expressive Arts (Indoor)	1:1—Design a Habitat	2:1—Fish Sense, 2:2—Fins: Form & Function, 2:6—Adapted for Habitat, &/or 2:7—Fish Tales	3:1—The Incredible Journey (with story extension), 3:2—Function of Aquatic Plants &/or 3:3—Wonderful Watersheds	4:1—Fishing Regulations & Sportsmanship	5:5—Flashy Fish Catchers	6:3—Planning a Fishing Trip
Communities (Indoor/Outdoor)	1:4—Water Habitat Site Study, 1:2—Food Chain Tag, &/or 1:3—Run For Your Life Cycle	2:5—Diving Into Diversity & 2:3—Fish Families	3:6—Macroinvertebrate Mayhem	4:4—Town Meeting &/or 4:5—Fisheries Management & You	5:1—Freshwater Rods & Reels	6:3—Planning a Fishing Trip
Discovery or Inquiry & Investigation (Indoor/Outdoor)	1:4—Water Habitat Site Study or 1:6—From Frozen to Fascinating	2:2—Fins: Form & Function &/or 2:9—Fish Bowl (as a unit wrap-up or assessment)	3:2—Function of Aquatic Plants	4:3—Aquatic Plant Power	5:5—Flashy Fish Catchers & either 5:2—Casting a Closed Face Rod & Reel Combo, 5:3—Pop Can Casting, or 5:7—Making Ice Fishing Jiggle Sticks	6:4—Piscatorial Palate & 6:1—Safety & Fishing at the Waters Edge
Fish Food (Indoor/Outdoor)	1:2—Food Chain Tag 1:4—Water Habitat Site Study	2:6—Adapted for Habitat	3:6—Macroinvertebrate Mayhem	4:1—Fishing Regulations & Sportsmanship	5:1—Freshwater Rods & Reels	6:1—Safety & Fishing at the Waters Edge & 6:4—Piscatorial Palate
Fishing & Environmental Issues (Indoor)	1:3—Run For Your Life Cycle	2:6—Adapted for Habitat	3:4—Would You Drink This Water?	4:3—Aquatic Plant Power or 4:4—Town Meeting	5:4—Tackling Your Tackle Box	6:5—Eating Fish
Heavy on Habitat (Indoor)	1:5—Habitat Hideout	2:6—Adapted for Habitat	3:7—Mussel Mania	4:2—Fish Surveys	5:6—Fool Fish With Flies	6:5—Eating Fish
Health & Safety	1:6—From Frozen to Fascinating	2:9—Fish Bowl	3:4—Would You Drink This Water?	4:3—Aquatic Plant Power (role of plants in healthy aquatic habitats)	5:2—Casting a Closed-face Rod & Reel Combo	6:1—Safety & Fishing at the Waters Edge, 6:2—Ice Fishing & Winter Safety &/or 6:5—Eating Fish
Interdisciplinary (Indoor)	1:3—Run For Your Life Cycle (phy ed)	2:7—Fish Tales (language arts)	3:2—Function of Aquatic Plants (biology)	4:2—Fish Surveys (math) & 4:4—Town Meeting (social studies)	5:5—Flashy Fish Catchers (creative arts)	6:5—Eating Fish (health)
Life Cycles, the Water Cycle, & Recycling (Indoor/Outdoor)	1:3—Run For Your Life Cycle	2:1—Fish Sense	3:1—The Incredible Journey	4:1—Fishing Regulations & Sportsmanship	5:3—Pop Can Casting	6:1—Safety & Fishing at the Waters Edge
Loving Language (Indoor)	1:1—Design a Habitat	2:7—Fish Tales &/or 2:9—Fish Bowl	3:5—The Lake Game	4:1—Fishing Regulations & Sportsmanship &/or 4:4—Town Meeting		6:3—Planning a Fishing Trip

continued

Unit Matrix (continued)

Strand/Unit	Chapter 1: Aquatic Habitats	Chapter 2: Minnesota Fish	Chapter 3: Water Stewardship	Chapter 4: Fish Management	Chapter 5: Fishing Equipment & Skills	Chapter 6: Safety & the Fishing Trip
Math & Logic (Indoor)	1:5—Habitat Hideout &/or 1:6—From Frozen to Fascinating	2:4—Using a Key for Fish ID, 2:8—Fish in Winter &/or 2:9—Fish Bowl	3:2—Function of Aquatic Plants	4:2—Fish Surveys, 4:3—Aquatic Plant Power &/or 4:5—Fisheries Management & You	5:4—Tackling Your Tackle Box	6:1—Safety & Fishing at the Waters Edge, 6:4—Piscatorial Palate &/or 6:5—Eating Fish
Minnesota Winter (Indoor/ Outdoor)	1:6—From Frozen to Fascinating	2:8—Fish in Winter	3:1—The Incredible Journey	4:1—Fishing Regulations & Sportsmanship	5:7—Making Ice Fishing Jiggle Sticks	6:2—Ice Fishing & Winter Safety
Natural Resource Managers (Indoor)	1:3—Run For Your Life Cycle	2:4—Using a Key for Fish ID	3:3—Wonderful Watersheds &/ or 3:7—Mussel Mania	4:1—Fishing Regulations & Sportsmanship, 4:2—Fish Surveys &/or 4:5—Fisheries Management & You		6:5—Eating Fish
Similarities & Differences	1:4—Water Habitat Site Study &/or 1:5—Habitat Hideout	2:1—Fish Sense, 2:3—Fish Families &/or 2:5—Diving Into Diversity	3:4—Would You Drink This Water?, 3:6—Macroinvertebrate Mayhem &/or 3:7—Mussel Mania	4:3—Aquatic Plant Power	5:1—Freshwater Rods & Reels &/or 5:6—Fool Fish With Flies	6:4—Piscatorial Palate*
Stewardship (Indoor/ Outdoor)	1:1—Design a Habitat	2:6—Adapted for Habitat	3:5—The Lake Game	4:1—Fishing Regulations & Sportsmanship	5:3—Pop Can Casting	6:1—Safety & Fishing at the Waters Edge Consider capping this unit with a Service-learning project—see Service-learning Appendix
Strictly Fishing (Outdoor)	1:2—Food Chain Tag	2:5—Diving Into Diversity & 2:3—Fish Families	3:5—The Lake Game	4:1—Fishing Regulations & Sportsmanship	5:2—Casting a Closed Face Rod & Reel Combo or 5:3—Pop Can Casting	6:1—Safety & Fishing at the Waters Edge
Systems	1:2—Food Chain Tag, 1:3—Run For Your Life Cycle &/ or 1:6—From Frozen to Fasci- nating	2:4—Using a Key for Fish ID &/ or 2:8—Fish in Winter	3:1—The Incredible Journey & 3:2—Function of Aquatic Plants	4:3—Aquatic Plant Power, 4:4—Town Meeting &/or 4:5—Fisheries Management & You	5:5—Flashy Fish Catchers 5:6—Fool Fish With Flies	6:3—Planning a Fishing Trip
Watersheds (Indoor/ Outdoor)	1:4—Water Habitat Site Study	2:8—Fish in Winter	3:3—Wonderful Watersheds, 3:5—The Lake Game, &/or 3:6—Macroinvertebrate Mayhem	4:4—Town Meeting	5:6—Fool Fish With Flies	6:5—Eating Fish

* If you do this lesson, it is suggested that you culminate the unit with one of the fishing skills lessons 5:2, 5:3, or 5:7 and a fishing and safety lesson 6:1 or 6:2.