

Fish Iowa! Unit

Day 1

Teaching Objective

At the end of this lesson, all students will have a better understanding of game fish and pan fish. Length limits will be understood as to why regulations are in place in different locations of fishing. Will also identify with the history of fishing and ethics for the state of Iowa.

Reference Materials

Unit 1 Pg 3 Fish Iowa Curriculum

Pg 7-9

2011 Iowa Fishing Regulations Manual

2011 Nebraska Fishing Regulation Manual

Materials Needed

Posters

Fish ID Brochure

Fish Iowa CD

Quick fishing facts/ Current fishing regulations book.

Description of Activities

- I. Fish identification of different fish species located in Iowa and the other states.
- II. Different regulations that are mandated on different lakes in Iowa as well as in other states and countries will be explained.

Day 2

Teaching Objective

Students will learn and understand putting together a safety kit. They will understand the importance of the contents of the kit and how to use each item. Students will understand how to dress properly for fishing and water safety and rules.

Reference Materials

Fish Iowa Unit 1 pg 11-15

Safety kit/dress/regulations

Fish Iowa Unit p. 105

Materials Needed

First aid Kit

Detergent Bottle/rope

Life Jacket

Clothes Baskets full of clothes

Description of Activities

- I. Learn and follow water safety.
- II. Bring a laundry basket full of clothes, let students pick optimal clothing for fishing trip.
 - a. Review choices and discuss best choices for fishing trips.
- III. Have each student make own first aid kit and have each student sort to make sure all students are properly equipped.
 - a. Discuss the purpose of each item and show how they are used.
- IV. Discuss life Jacket safety.

- a. Have each student put on and demonstrate proper life jacket procedures.

Day 3

Teaching Objective

Students will have a basic understand of fish senses and how they effect fish. Students will be able to identify fish species of local fisheries.

Reference Materials

Fish Iowa Unit 2 pp. 22-33

Materials Needed

Fish Iowa Fish ID Guide

Fish Iowa Card Game

Fish Group Identification posters

Fish Anatomy Poster

Supplemental Identification (CD)

Biodiversity of Iowa: Aquatic Habitats: CD

Description of Activities

- I. Students will become familiar with the general characteristics of fish, especially those external features necessary for species identification.
- II. They will become acquainted with the senses of the fish and how they function.
- III. TSW become familiar with the fish families in Iowa and identify fish within local fisheries.

Day 4

Teaching Objective

Continuation of Day 3

Reference Materials

Materials Needed

Rubber Fish of different Species

Paint for the t-shirts.

Plain color t-shirts for the students

Description of Activities

Art teacher will draw using scale and modern techniques to make fish Iowa T-shirts.

Day 5

Teaching Objective

Continuation of Day 3-4 Adding Math Teacher

Reference Materials

Materials Needed

Tape Measure/Ruler/Fish Ruler

Fish Regulation Booklet (Iowa)

Fish Scale

Description of Activities

- I. Using fishing guide determine length limits.
 - a. Teach students to read tape measures and understand the regulations of fish limits.
 - b. Students will learn to properly hook fish and weigh them.

Day 6

Teaching Objective

Students understand and identify basic equipment and terminology associated with functions of casting reels. Students will become familiar with basic components of the reels. Students will learn basic procedures for casting tackle.

Reference Materials

Knot Tying directions Fish Iowa p 43
Basic Casting Supplemental (CD)

Materials Needed

Rods and Casting Reels
Casting Plugs
Knot Tying Boards
Pop Can Casting Rigs: Fish Iowa Diagram

Description of Activities

- I. Students will bring in fishing gear for functional analysis of gear.
 - a. Students will be directed to diagrams of inner workings of casting reels and show proper care for the equipment.
 - b. Students will become familiar with key components of the reel.
 - c. They will learn basic casting procedures and safety precautions. Various casting methods.

Day 7

Teaching Objective

Continuation of Day 6

Reference Materials

Materials Needed

Description of Activities

- I. Students will be shown various knot tying alternatives.
- II. Students will have a chance to practice casting with the pop can casting rigs before they are allowed to use the casting reel and rod combinations.
 - a. Each student must master the proper techniques of casting with plugs before being allowed to tie on any other equipment.
 - b. Students will also be able to do general service to his/her fishing equipment in case it fails.

Day 8

Teaching Objective

Students will understand and identify basic equipment and terminology associated with functions of spinning reels. Students will become familiar with basic components of the reels. Students will learn basic procedures for spinning tackle.

Reference Materials

Audio visual basic spincasting(CD)

Materials Needed

Plug Golf Game/Golf Score Cards(50)
Target Casting Mats
Spinning Tackle

Description of Activities

- I. Students will apply previous lessons using spin casting tackle.
- II. Students will use spin casting tackle to play Plug golf and compete for “prizes” on the target casting mats.
 - a. Students will show ability to come close to targets.
 - b. Geometry teacher will proctor the plug golf course.
 - c. Students will design the course using geometry principles.

Day 9

Teaching Objective

Students will identify various live and artificial baits and lures to use at local fisheries.

Reference Materials

Materials Needed

Live Bait: Worms, Leeches, Frogs, Crickets
Stink Bait: Dip Baits/doughballs
Other Baits: Corn, marshmallows
Artificial Lures: Spinners, Crank Baits, Spoons, Top Water
Worms, Flies, Plugs, Jigs

Description of Activities

- I. Science Class will look into why these live baits are so productive.
- II. Art class will brainstorm ideas to design own lure for fishing success. They will draw and design it.

Day 10

Teaching Objective

Students will make designed lures. TSW will test lures in fish tank to determine if they mimic bought lures or live baits.

Reference Materials

Best Fishing in your Hands(CD)
Brochures from Tackle manufactures(Bass Pro)

Materials Needed

All Baits from Day 9
Fish Tank
Lure Materials: Spinners, Beads, Hooks, Lead Heads

Description of Activities

- I. Students will watch video on fishing.
- II. They will discuss best baits for each fish species.

III. Students will show off their lure with a mini infomercial and demonstration.

Day 11

Teaching Objective

Students will tour Bass Pro to get hands on tour of the facility. Including but not limited to lures, baits, tackle and fish identification.

Reference Materials

Bass Pro Tour Guide with tackle/fish id

Materials Needed

Description of Activities

- I. Students will Tour Bass Pro.
 - a. They will look at all available tackle from the previous 10 days.
 - b. They will be able to look at various tackle and talk to experts about various species of fish and the necessary equipment to tackle area species.

Day 12

Teaching Objective

Student will learn how to land and handle fish safely.

Reference Materials

Iowa Fishing Regulations Guide

Iowa Lakes Fishing Guide

Directions for Cleaning fish (fish iowa 69-71)

Supplemental CD Landing and Caring for the Catch

Materials Needed

Spincasting Rig, Landing net, Stringers, baskets, fillet knives,
Gloves, newspaper, garbage bags, cutting boards, Fish cooking materials.
Rubber Fish Models

Description of Activities

- I. Show the video.
 - a. Discuss Catch and Release.
 - b. Students will learn how to handle fish without getting injured.
 - c. They will look at fish anatomy pictures, using gloves, proper return to fishery techniques.
 - d. Will talk about fish protection and ethics and responsibilities.

Day 13

Teaching Objective

Students will understand proper hooking techniques, unhook, release and cleaning procedures.

Reference Materials

Fish ID posters

Materials Needed

Cooler/Ice

Rubber Fish

Fish Pliers
Practice Hooks

Description of Activities

- I. Students will be shown techniques in proper unhooking fish.
- II. They will learn how to properly handle fish after the catch and shown how to clean fish.

Day 14

Teaching Objective

All students will understand the laws, regulations that are required while fishing. Students will experience a positive hands-on experience that can be used throughout their lifetime.

Reference Materials

Fish Iowa Appendix K

Materials Needed

Permission slips
First Aid Kit
Terminal Tackle
Rods and reels

Description of Activities

- I. Students will be transported to the pond and participate in fishing.
- II. Everyone will be able to get a better understanding of a lifetime outdoor activity (fishing) and have the opportunity for a hands-on experience.

Day 15

Teaching Objective

All students will understand the techniques of working in a team to organize create and cook a meal with fish as the main course.

Reference Materials

Cook Book
Internet

Materials Needed

Fish
Potatoes
Salad materials
Seasonings
Batter for fish
Pans
Basket of various foods and utensils

Description of Activities

- I. Students will work in teams to create a meal with fish as the main course.
 - a. Students will create their own meal as if they were on a camping trip.
 - b. Students will experiment with Pan frying, baking, grilling and deep fat frying of fish.
 - c. Everyone will have a better understanding of a lifetime outdoor activity (cooking their own fish) and having the opportunity for a hands- on experience.

