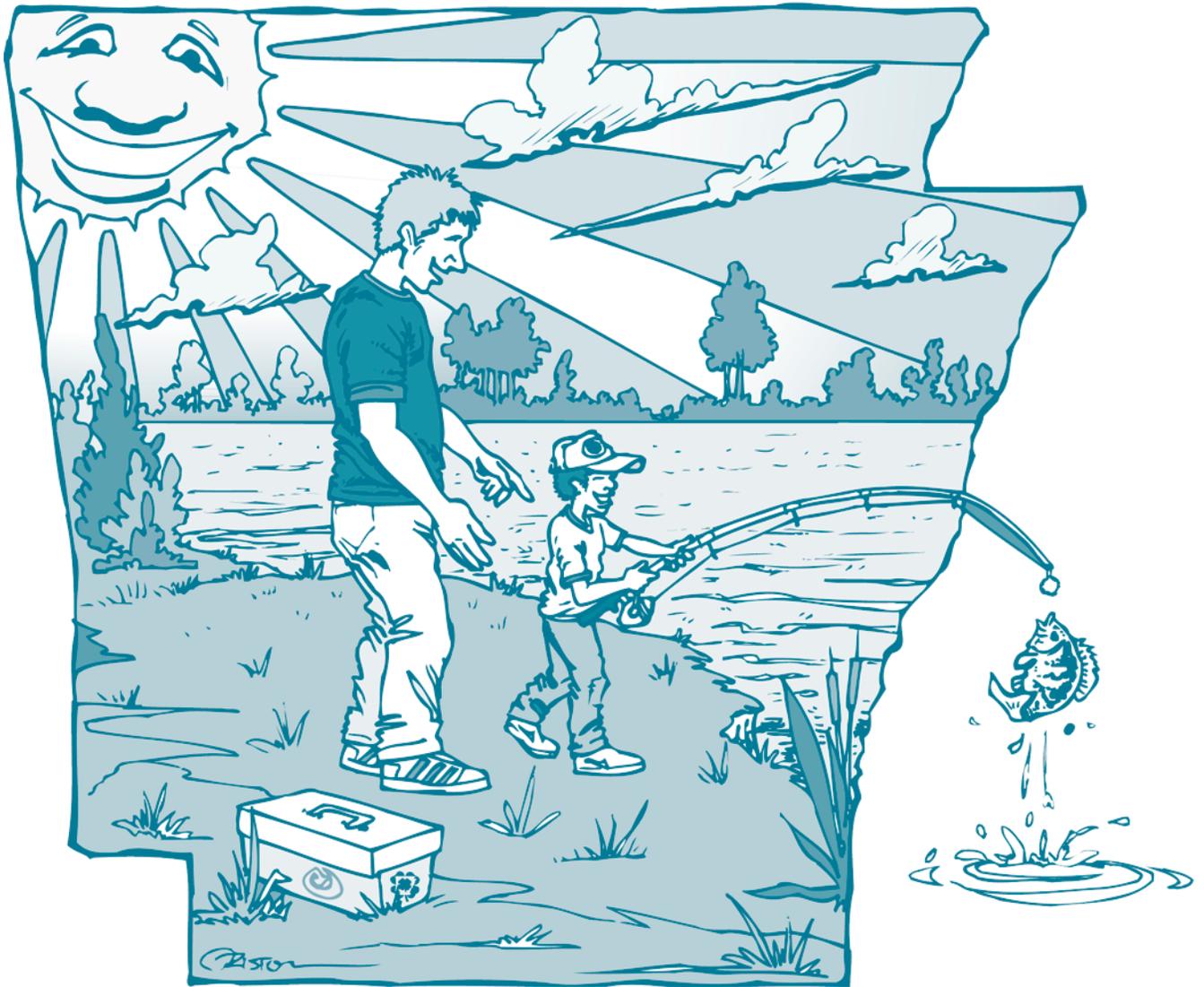


# 4-H Reel Into Sport Fishing

For Regional and State Level Competitions



A Cooperative Extension Program,  
University of Arkansas at Pine Bluff,  
United States Department of Agriculture  
and County Governments Cooperating



# 4-H Reel Into Sport Fishing A Guide to O-Rama Activity

## For Regional and State Level Competitions

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# **Reel Into Sport Fishing**

## **Regional and State O-Rama – Junior and Senior 4-H'ers**

### **Aquaculture and Fisheries**

## **Objectives**

- 1) Targeted life skills: healthy lifestyle choices, responsible citizenship and environmental education.
- 2) To provide opportunity for 4-H'ers to learn about educational and career opportunities in the fields of fisheries management and aquatic sciences. Representatives from universities and state agencies will be available to visit with participants and answer questions.
- 3) To create more interest in recreational fishing.
- 4) To improve knowledge of fishing techniques and fish habitat.

## **Eligibility**

Each county may enter one junior and one senior 4-H member at the Regional 4-H O-Rama. The top five senior 4-H'ers from each Regional O-Rama will be eligible to participate in the State O-Rama.

## **Regional and State Level Competition**

Both junior and senior level activities at the regional and state level will be based on information in the Level One 4-H Sportfishing Project Activity Guide, *Take the Bait*. Every county office was delivered a set of Sportfishing Project Activity Guides when they were issued in 2001. Additional copies of this book are available from the National 4-H Cooperative Curriculum System website, [www.n4hccs.org](http://www.n4hccs.org). Specific information found in the book, such as fishing methods, safety and aquatic ecology, will be suitable material for the competitions.

Additional information regarding fish identification, habitat and fishing methods can be found in *Beginner's Fishing Guide* and *Arkansas Sport Fish Identification Pocket Guide*, both published by the Arkansas Game and Fish Commission and available at 1-877-676-6963.

# Judging

## County

Each contestant will be judged on tackle identification and knot tying. In addition, seniors will be required to identify five common Arkansas fish species and determine the best location (habitat) to catch each fish. The points and score sheets are outlined in *4-H Reel Into Sportfishing* (S207).

## Regional and State

Each contestant will be judged on tackle and fish identification, water safety, aquatic ecology and knot tying. In addition, seniors will also be required to know information about specific Arkansas fish species and determine the best location (habitat) and equipment to catch each of the fish. An explanation of regional and state scoring is included within this booklet.

## Awards

The first place winner will receive a trophy (Junior and Senior Division at Regional 4-H O-Rama; Overall winner at Arkansas 4-H O-Rama). Second, third, fourth and fifth places will receive ribbons. No ribbons will be awarded for zero scores. Fishing tackle donated by the Arkansas Game and Fish Commission will be given as prizes to first, second and third place participants in the junior and senior divisions at the regional and state competitions.

# Study Guide

The three *Sportfishing Project Activity Guide* books are great for a 4-H project idea, especially if you enjoy the outdoors and love to fish. The Level One 4-H Sportfishing Project Activity Guide, *Take the Bait*, supplies the content for this event at the Regional and State 4-H O-Ramas. Below is a list of skills and concepts that 4-H'ers should know prior to the event. Unless otherwise noted, all page numbers refer to Level One 4-H Sportfishing Project Activity Guide, *Take the Bait*.

This event will be conducted in four sections: angling skills, tackle skills, aquatic ecology and fish identification. 4-H'ers will be judged based on performing skills and answering written questions, such as multiple choice, matching, fill-in-the-blanks and drawing a diagram, as described on page 3.

# Juniors and Seniors

## Angling Skills

- 1) Learn to tie the four knots listed in “Knots to Attach Snaps, Swivels, Lures, Flies, Sinkers and Hooks” on page 9, and be prepared to tie these knots at the competition.
- 2) Be prepared to diagram a bobber and bottom-fishing rig as described in “Rigging” on page 15.

## Tackle Skills

- 1) Study and learn the various tackle and their uses listed in “Tackling Tackle” on page 16. Be prepared to identify five specific tackle and describe their uses while fishing.
- 2) Learn about building your own survival kit described in “Fishing Deeper” on page 19. Be prepared to identify or list five articles found in a survival kit.

## Aquatic Ecology

- 1) Be prepared to answer questions about water temperature and fish as described in “Water Temperatures and Fish” on page 23 of *Take the Bait* and pages 10 and 13 of *Beginner’s Fishing Guide*.
- 2) Be prepared to answer five questions about the water cycle based on information found in “Water Cycle” on page 27.
- 3) Study and learn the parts of a fish in “Sharp Teeth, Sharp Spines” on page 32 of *Take the Bait* and pages 4 and 5 of *Arkansas Sport Fish Identification Pocket Guide*. Be prepared to label five parts of a fish.

## Fish Identification

- 1) Be able to identify five Arkansas fish that are presented either live, preserved, as replicas or in pictures. The Arkansas Game and Fish Aquarium will be at many of the regional and state O-Ramas, and you may be asked to identify five fish in the aquarium at the competition. A good resource for fish identification is the *Arkansas Sport Fish Identification Pocket Guide*, available from the Arkansas Game and Fish Commission (1-877-676-6963).

## Seniors

- 1) Seniors will answer five questions about where specific fish live, how the fish looks, best water temperature, baits used for catching fish and the best time of year to catch specific fish as described in “Know Your Fish” at the bottom of pages 12 and 20 of *Take the Bait* and pages 4 and 17 of *Beginner’s Fishing Guide*.

# Regional and State O-Rama Scoring

|                          |  |
|--------------------------|--|
| 1) Angling Skill         |  |
| Knots                    | 40 points (10 points each knot)                                    |
| Rigging                  | 10 points (5 points each rig diagram)                              |
|                          | <hr/>  |
| Total Points             | 50 points  |
| 2) Tackle Skills         |  |
| Tackle ID                | 25 points (5 points for each of five tackle questions)             |
| Survival Kit             | 10 points (2 points for each of five survival items listed)        |
|                          | <hr/>  |
| Total Points             | 35 points  |
| 3) Aquatic Ecology       |  |
| Water Temp and Fish      | 25 points (5 points for each of five questions)                    |
| Water Cycle              | 10 points (2 points for each of five questions)                    |
| Parts of a Fish          | 10 points (2 points for each part of a fish correctly identified)  |
|                          | <hr/>  |
| Total Points             | 45 points  |
| 4) Fish ID               | 25 points<br>(5 points for each of five fish correctly identified) |
| Total Points             | 25 points  |
|                          | <hr/>  |
| Grand Total<br>(Juniors) | 155 points   |
| Seniors Include:         |  |
| 5) Know Your Fish        | 50 points (10 points for each of five questions)                   |
|                          | <hr/>  |
| Grand Total<br>(Seniors) | 205 points   |

# 4-H Reel Into Sport Fishing Regional & State Level

*TOTAL SCORE* \_\_\_\_\_

*NAME* \_\_\_\_\_

*ADDRESS:* \_\_\_\_\_

*COUNTY:* \_\_\_\_\_ *REGION* (circle one) *NE NW SE SW*

*JUNIOR* or *SENIOR* (circle one)

## **ANGLING SKILLS: RIGGING** (10 point diagram)

Draw a diagram below of rigging for bottom fishing:

**Score:**

**(Total 10 points)**

## **ANGLING SKILLS: KNOTS**

Knots: (10 points/knot)

1) **Palomar Knot**

2) **Turtle Knot**

3) **Snell Knot**

4) **Improved Cinch Knot**

**Score:**

**(Total 40 points)**

## **TACKLE IDENTIFICATION** (5 points for each question)

1) Name of tackle:

2) Name of tackle:

3) Name of tackle:

4) Name of tackle:

5) Name of tackle:

**Score:**

**(Total 25 points)**

## WATER TEMPERATURES AND FISH

Circle the correct answers! (5 points for each question)

Score:

(Total 25 points)

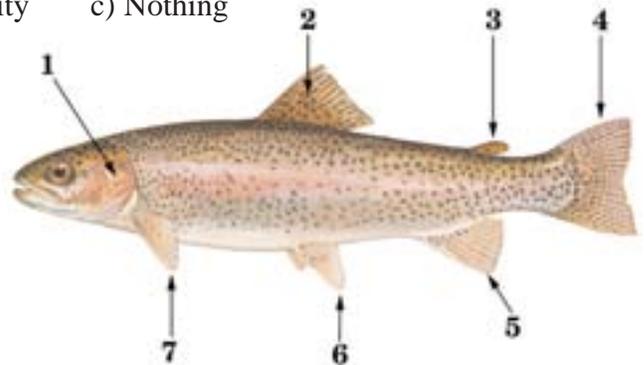
- 1) What type of water system will have a different water temperature at the surface and the bottom?  
a) Deep Water Lake    b) Stream
- 2) Which temperature is in the preferred water temperature range for smallmouth bass?  
a) 62°F                      b) 68°F                      c) 74°F
- 3) Which temperature is in the preferred water temperature range for channel catfish?  
a) 52°F                      b) 84°F                      c) 75°F
- 4) Maximum water temperature (a hot day in the summer) is the least important restriction on what types of fish that can be found in a water body.  
True or False
- 5) Cool water fish prefer water below 70°F.  
True or False

## PARTS OF A FISH (5 questions/5 points each = \_\_\_\_\_)

Score:

(Total 25 points)

- 1) What do fish use the pectoral fin for?  
a) Moving forward or backward    b) Stability    c) Nothing
- 2) Do fish have a pyloric caeca?  
Yes or No



Give the name of the fish part for numbers \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ !

(Judge will select the three fish parts to be named.)

\_\_\_\_\_ ) \_\_\_\_\_

\_\_\_\_\_ ) \_\_\_\_\_

\_\_\_\_\_ ) \_\_\_\_\_

Picture courtesy of U.S. Fish and Wildlife Service, National Conservation Training Center - Publications and Training Materials, creator Duane Raver

**WATER CYCLE** (10 points each)

**Score:**  
**(Total 30 points)**

- 1) Is water recycled?  
Yes No
- 2) The average person could go how many days without water?  
a) 1 day      b) 3 days      c) 5 days      d) one week
- 3) What percentage of the earth's water is fresh water?  
\_\_\_\_\_

**FISH ID** (5 fish at 10 points each)

**Score:**  
**(Total 50 points)**

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

**SENIORS ONLY!**

**KNOW YOUR FISH** (5 questions worth 5 points each)

**Score:**  
**(Total 25 points)**

- 1) What is the average size (range) of a crappie in pounds? \_\_\_\_\_
- 2) Which is an excellent fish for ice fishing? Bluegill or Crappie (circle one)
- 3) What type of water body does the crappie prefer? \_\_\_\_\_
- 4) What is the optimum water temperature range for bluegill? \_\_\_\_\_
- 5) Where is the best location in the water to find a bluegill? \_\_\_\_\_

**TOTAL**  
**SCORE** \_\_\_\_\_

# Survey of This Activity

1) Did you enjoy participating in this activity?                      Yes                      No                      Neutral

2) What part of this activity did you enjoy most? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3) What part of this activity did you not enjoy? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4) What would you liked changed? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5) Will you participate in this activity again?                      Yes                      No                      Not Sure

## What Is 4-H Work?

4-H work is that part of the program of the Cooperative Extension System of the University of Arkansas which serves youth. Young people between the ages of 5 and 19 organize themselves into a 4-H club with their own officers, adult leaders and local programs. The primary purpose of 4-H work is to develop in boys and girls leadership, initiative, citizenship and character, and to teach them certain subject matter.

## The 4-H Club Pledge

I pledge:

my Head to clearer thinking,  
my Heart to greater loyalty,  
my Hands to larger service,  
my Health to better living,  
for my club, my community  
my country and my world.

## The 4-H Club Motto

To Make the Best Better.

## The 4-H Club Emblem



The 4-H emblem is a four-leaf clover with the letter “H” on each leaf. The four “H’s” stand for Head, Heart, Hands and Health.

## The 4-H Club Colors

GREEN: Nature’s most common color is emblematic of springtime, life and youth.

WHITE: Symbolizes purity and high ideals.

This publication was provided to you through the Cooperative Extension System of the University of Arkansas, represented in your county by your county Extension agents.



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4-H is the youth development program of the Cooperative Extension System,  
University of Arkansas.

Issued in furtherance of Extension work, Act of September 29, 1977, in cooperation with the U.S. Department of Agriculture, Dr. Jacquelyn W. McCray, Dean/Director, 1890 Research and Extension Programs, Cooperative Extension Program, University of Arkansas at Pine Bluff. The Arkansas Cooperative Extension Program offers its programs to all eligible persons regardless of race, color, national origin, religion, gender, age, disability, marital or veteran status, or any other legally protected status, and is an Affirmative Action/Equal Opportunity Employer.

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