



## OBJECTIVES

- Targeted Life Skills: character, healthy lifestyle choices, and responsible citizenship.
- To provide opportunity for faculty to share educational and career opportunities in the fields of aquaculture, fisheries management and aquatic sciences. Representatives from universities and state agencies will be available to visit with participants and answer questions.
- To create more interest in the pleasure of fishing.
- To increase the participants' knowledge of fish in Arkansas and improve their accuracy in casting through practice.

## **ELIGIBILITY**

Each County may enter two Junior and two Senior 4-H members at the District 4-H O-Rama.

The top seven (7) Senior 4-H'ers from each District O-Rama will be eligible to enter the State 4-H O-Rama.

## ACTIVITY

Both Junior and Senior activities will be conducted according to the regulations outlined in this document.

Each contestant is encouraged to furnish their own equipment. Spinning, spincast and baitcasting combos up to 8 feet in length are permitted, but all contestants must use a 3/8 oz practice plug. There will be no division for fly fishing. Spincast combos and practice plugs will be available at the District and State activity if you do not have, or want to, use your own equipment. The activity is the same at the County, District and State level for Juniors and Seniors, except that there will be more exam questions at each level for both.

#### JUDGING

Each contestant will be judged on casting accuracy. Each contestant will also answer exam questions related to fish anatomy, biology and ecology, Arkansas fish species identification, fishing tackle identification, and fishing regulations, safety and ethics. Study guides specifically for the County, District and State levels will be randomly generated from a master question bank each year and published online with practice answer sheets. The exams will include a subset of questions from the study guide at each level. In general, the County exam will have the fewest questions and the State exam will have the most.

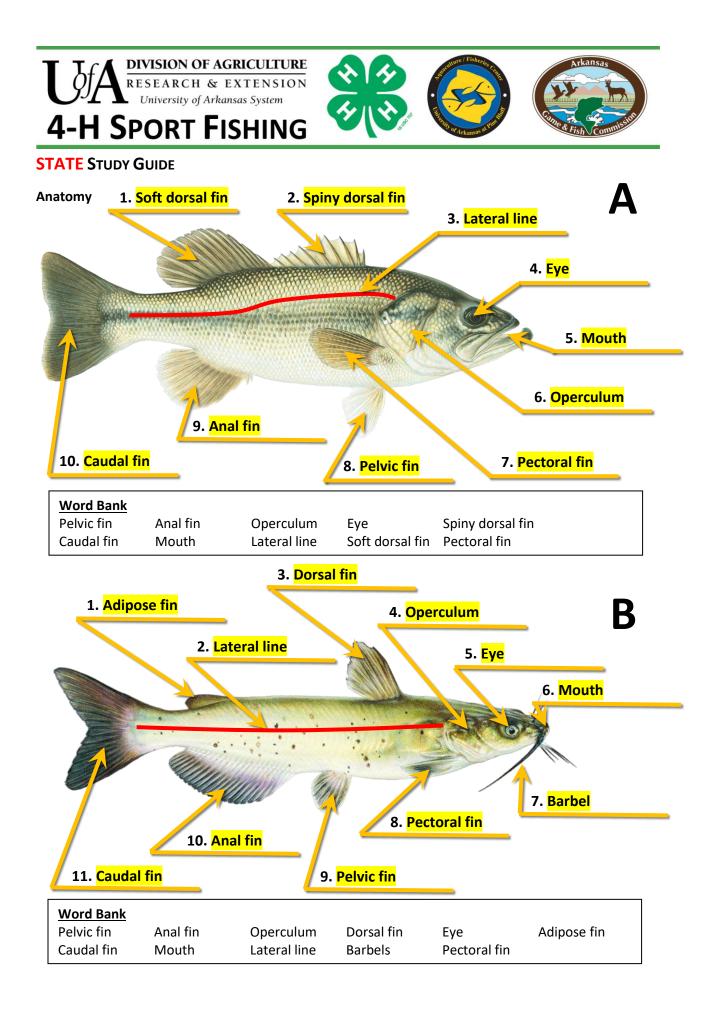
## AWARDS

Ribbons will be awarded to the top 5 finishers in the Junior and Senior divisions at the District 4-H O-Rama, and to the top 5 overall finishers at the State 4-H O-Rama. No ribbons will be awarded for zero scores.

Physical prizes will be awarded to first-, second- and third-place winners at the State 4-H O-Rama.

#### PREPARED BY

Scott Jones - Small Impoundment Extension Specialist Aquaculture and Fisheries Center - University of Arkansas at Pine Bluff (870) 575-8185 joness@uapb.edu

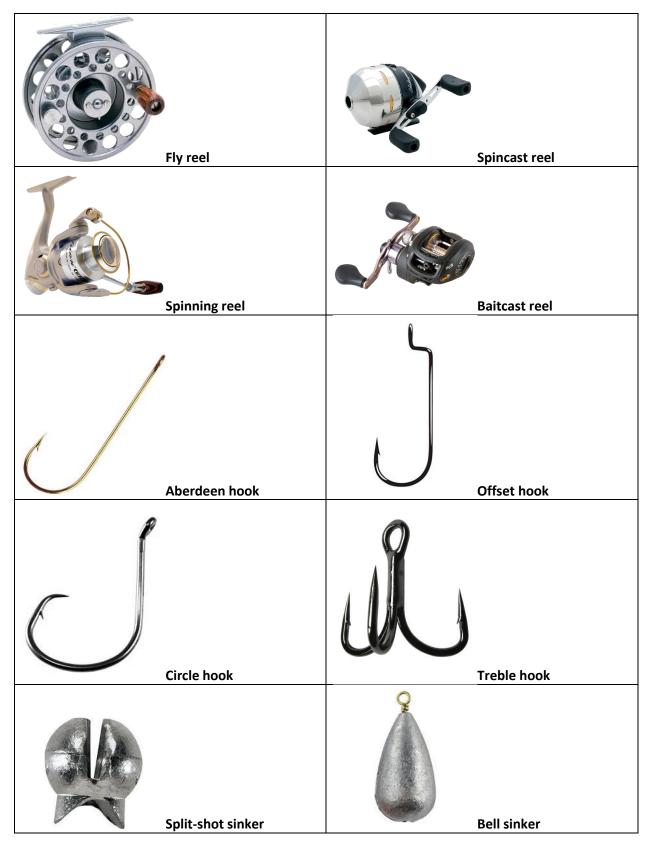


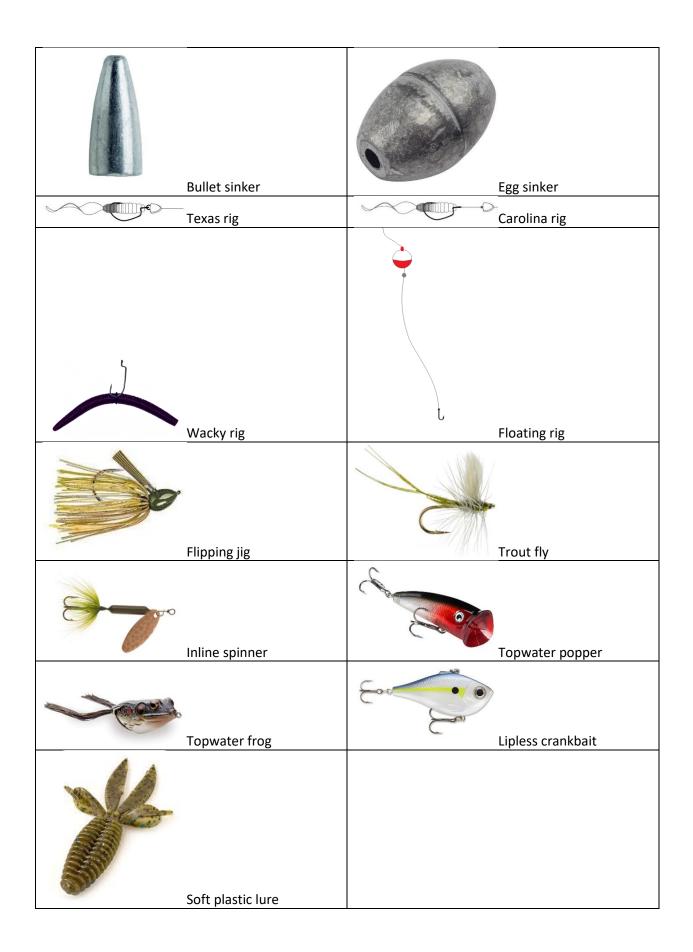
## **Fish Identification**

Photos	Identification tipsBluegill:Laterally compressed bodySmall mouthDark blue flap on edge of operculumDark patch near based of soft-rayed dorsal fin			
	<ul> <li>White crappie:</li> <li>Laterally compressed body</li> <li>5-6 dorsal fin spines</li> <li>Moderately sized mouth</li> <li>Silvery to silvery/green coloration</li> <li>Vertical bars</li> </ul>			
	<ul> <li>Largemouth bass:</li> <li>Jaw extends beyond the back side of the eye</li> <li>Dorsal fins separated by a notch</li> <li>Deep olive green back fading to white belly</li> <li>One row of thick dark splotches down midline</li> </ul>			
	<ul> <li>Striped bass:</li> <li>Long, almost cylindrically shaped body</li> <li>Defined horizontal stripes usually unbroken</li> <li>Slightly darker back fading to white belly</li> <li>Two tooth patches near back of tongue</li> </ul>			
	<ul> <li>White bass:</li> <li>Stocky, football shaped body</li> <li>Stripes faint, only one goes length of body</li> <li>Slightly darker back fading to white belly</li> <li>One tooth patch near back of tongue</li> </ul>			
	<ul> <li>Channel catfish:</li> <li>Barbels around the mouth</li> <li>Edge of anal fin rounded</li> <li>24-29 anal fin rays</li> <li>Often spotted, brown-blue back, white belly</li> </ul>			

	Blue catfish: • Barbels around the mouth				
Contraction of the second seco	<ul> <li>Edge of anal fin almost straight</li> </ul>				
D. C. A. C.	<ul> <li>30-36 anal fin rays</li> </ul>				
	<ul> <li>Usually slate/blue back, fading to white belly</li> </ul>				
	• Osually slate/blue back, lauling to write beily				
	Flathead catfish:				
	Barbels around the mouth				
	Lower jaw farther forward than upper				
	Caudal fin slightly rounded				
A CONTRACTOR OF THE OWNER	• Yellowish/brown body fading to pale belly				
	Rainbow trout:				
	Olive-greenish/blue back, white/silver belly				
	<ul> <li>Small dark spots along body and fins</li> </ul>				
	Faintly pink stripe down midline common				
	Pelvic and anal fins often have white tips				
	Brown trout:				
	Brownish back fading to often yellowish sides				
	<ul> <li>Dark spots surrounded by blue/grey halos</li> </ul>				
	Few to no spots on caudal fin				
	Spotted gar				
	Dark splotches scattered all over body				
The second s	<ul> <li>Moderately long snout with teeth</li> </ul>				
	Dorsal fin far back on body				
	Rounded caudal fin				
	Alligator gar				
	Mostly spotless body, except around the tail				
	Broad snout with teeth, resembling alligator's				
	Dorsal fin far back on body				
	Rounded caudal fin				
	Bowfin				
	Cylindrical body with somewhat blunt head				
	<ul> <li>Strong thick jaws with teeth</li> </ul>				
	Long continuous dorsal fin				
	Rounded caudal fin, often with dark eye spot				

## **Tackle Identification**





#### **Multiple Choice Questions**

## (Correct answers are highlighted in yellow)

## **Regulations:**

- Who is responsible for setting and enforcing fishing regulations on private waters in Arkansas: (Circle <u>one</u>)
  - A) The person(s) or organization that owns the land the private water is on
  - B) The Arkansas Game and Fish Commission
  - C) The United States Corps of Engineers
  - D) The mayor of the largest town nearest to the private water
- How many fish of one species are you allowed to <u>keep</u> in a single day: (Circle <u>all</u> that are true)
  - As many as the Arkansas Game and Fish
     Commission says in their annual Fishing
     Guidebook for that location and species
     in public waters
  - B) As many as the land owner says for that location and species in private waters
  - C) As many as I can fit in my ice chest
  - D) As many as I want
- For species with a length limit regulation, which type of measurement is most often used to determine if the fish is the right size to keep: (Circle one)
  - A) Standard length
  - B) Total length
  - C) Fork length
  - D) Fin length

- 4. It is illegal to: (Circle <u>all</u> that are true)
  - A) Import, transport, possess or take an endangered species
  - B) Possess live silver, black or bighead carp
  - C) Release any sportfish, baitfish or crawfish into public waters unless they were originally caught from that same water source
  - D) Waste edible fish or wildlife

## Safety:

- 5. Boats 16 feet or longer must have \_\_\_\_\_\_ on board (Circle <u>all</u> that are true)
  - A) One United States Coast Guard approved personal floatation device for each occupant
  - B) One United States Coast Guard approved throwable personal floatation device
  - C) One United States Coast Guard approved paddle
  - D) One fire extinguisher for inboard boats or boats with built-in fuel tanks
- Which fish species should you not pick up by the mouth due to large pointy teeth? (Circle all that are true)
  - A) Longnose gar
  - B) Walleye
  - C) Spotted bass
  - D) Bowfin
- Which fins on catfish do you have to be careful about touching due to their large serrated spines: (Circle all that are true)
  - <mark>A) Pectoral</mark>
  - B) Pelvic
  - C) Anal
  - D) Dorsal

- Fish are done cooking when the internal temperature reaches \_\_\_\_\_ °F: (Circle <u>one</u>)
  - A) 80 °F
  - B) 125 °F C) 145 °F
  - D) 160 °F
  - 0, 100

## **Biology:**

- True fish all have these things in common: (Circle <u>all</u> that are true)
  - <mark>A) Fins</mark>
  - B) Scales
  - <mark>C) Gills</mark>
  - D) Vertebra
- 10. Which of the following are fish: (Circle <u>all</u> that are true)
  - A) Blue whale
  - B) Red swamp crayfish
  - C) Blue Catfish
  - D) White shark
- 11. Fish get oxygen from the water through their: (Circle <u>one</u>)
  - A) Nose
  - B) Barbels
  - <mark>C) Gills</mark>
  - D) Skin
- 12. Fish \_\_\_\_\_ plays a major role in protection from diseases: (Circle <u>one</u>)
  - A) Gall bladder
  - <mark>B) Skin mucus</mark>
  - C) Fins
  - D) Operculum

## **Ecology:**

- 13. The ideal pH range for fish is between:
  - (Circle one)
  - A) 0.0 3.0
  - B) 3.0 6.5
  - <mark>C) 6.5 9.0</mark> D) 9.0 - 12.0

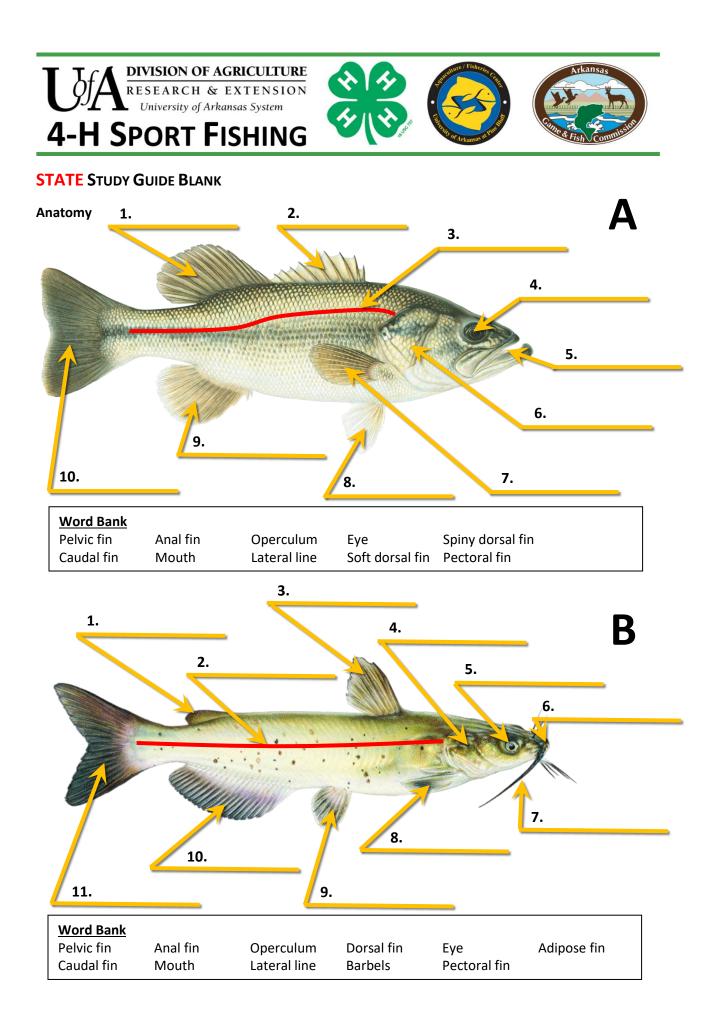
- 14. Which of the following can be habitat for invertebrates and fishes to live around: (Circle all that are true)
  - <mark>A) Rocks</mark>
  - B) Vegetation
  - <mark>C) Stumps</mark>
  - <mark>D) Brush</mark>
- 15. Planktivores eat: (Circle one)
  - A) Fish
  - B) Plants
  - <mark>C) Plankton</mark>
  - D) Various types of food
- 16. Which of the following Arkansas fish is primarily a piscivore/predator: (Circle one)
  - A) Fathead minnow
  - B) White drum
  - C) Paddlefish
  - D) Smallmouth bass

## Ethics:

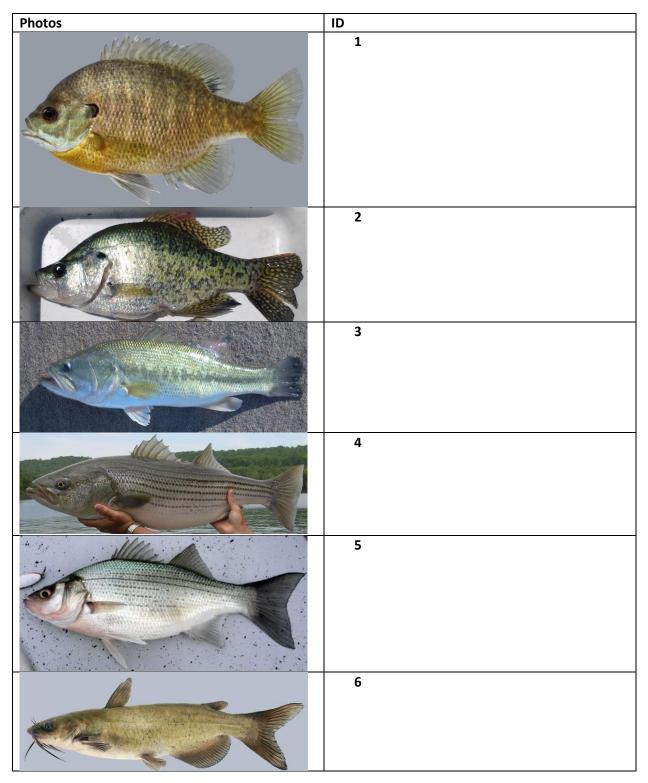
- You find someone fishing on your favorite spot on the bank of the Arkansas River. You should: (Circle one)
  - A) Go home
  - B) Find the next best spot nearby or ask the person politely if you can fish near them
  - C) Tell the person to leave because this is your spot
  - D) Fight them for exclusive rights to this spot

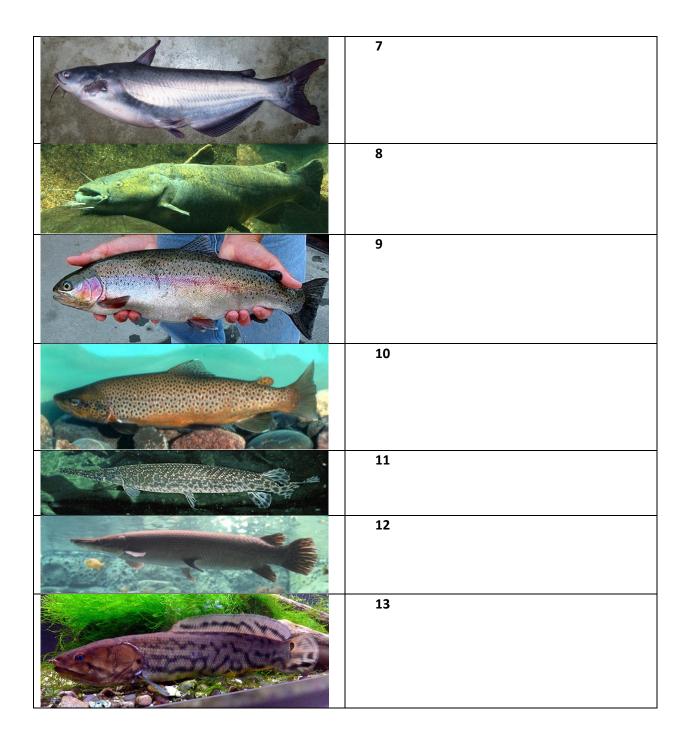
- 18. You notice lots of dead fish in your nearest public lake. You should: (Circle one)
  - A) Panic and run away because the water is clearly toxic
  - B) Ignore it because lots of fish die all at once all the time
  - C) Collect as many dead fish as you can for a fish fry
  - D) Contact the Arkansas Game and Fish Commission
- 19. Some fish species do not handle the stress of being caught and released very well when the weather is hot. Which of the following species should you consider releasing less of when the weather is hot: (Circle all that are true)
  - A) Bluegill
  - B) Striped bass
  - C) Channel catfish
  - D) Rainbow trout

- 20. You are fishing down the bank in your boat and notice someone fishing from the bank ahead. You should: (Circle one)
  - A) Continue fishing down the bank as if they are not there
  - B) Go around the person as to not disturb their fishing and continue down the bank
  - C) Stop, and go somewhere else
  - D) Tell the person on the bank to go away

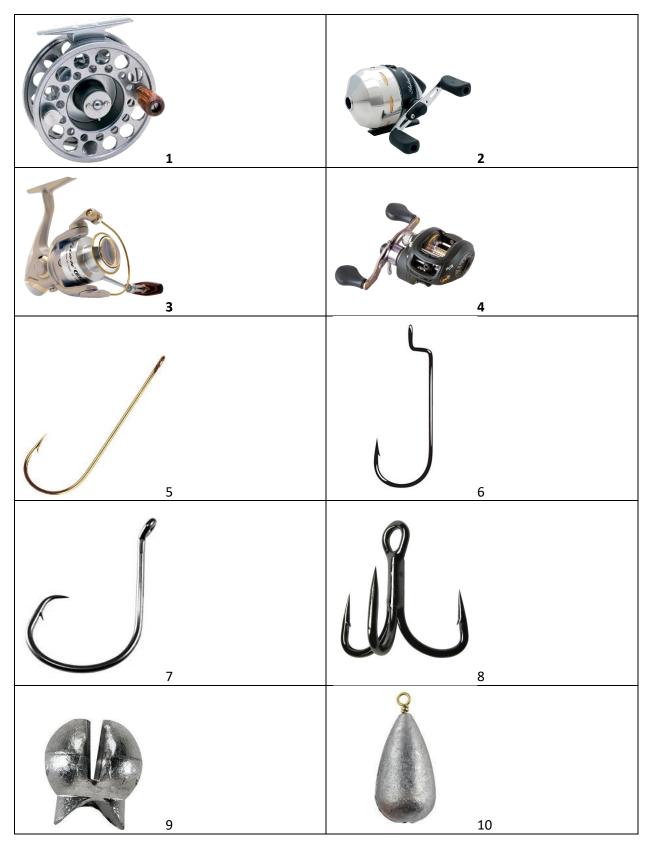


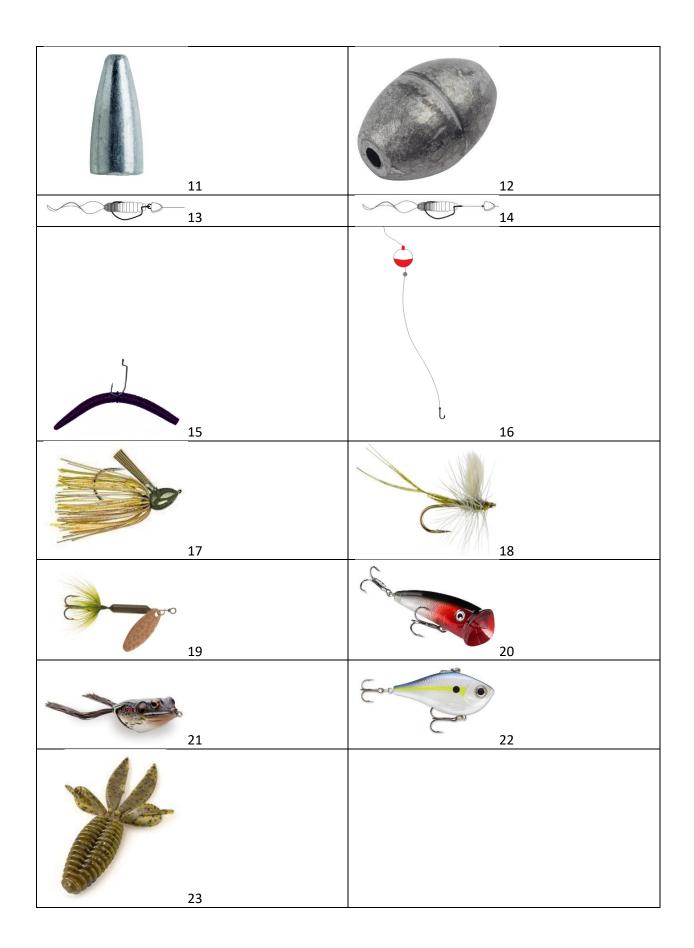
## **Fish Identification**





## **Tackle Identification**





## **Multiple Choice Questions**

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Nam	۱e
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Division (circle one)

JUNIOR SENIOR



# **STATE PRACTICE SCORE SHEET**

\_\_\_\_\_

Anatomy	Fish Identification
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
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	13

Total points earned on this page:

#### **Tackle Identification**

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# **Multiple Choice Questions** 1.\_\_\_\_\_ 2.\_\_\_\_\_ 3. 4.\_\_\_\_\_ 5. \_\_\_\_\_ 6.\_\_\_\_\_ 7.\_\_\_\_\_ 8. \_\_\_\_\_ 9. 10.\_\_\_\_\_ 11. \_\_\_\_\_ 12. 13.\_\_\_\_\_ 14. 15. \_\_\_\_\_ 16.\_\_\_\_\_ 17.\_\_\_\_\_ 18. 19.\_\_\_\_\_ 20. \_\_\_\_\_

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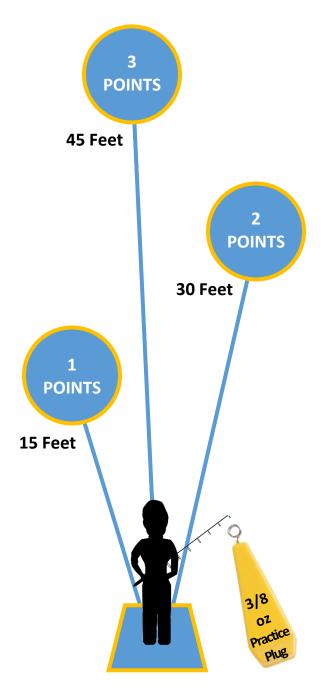






## **CASTING SCORING**

Circle (Score)	Cast 1	Cast 2	Cast 3	Cast 4	Cast 5	Total Score
Close (1)						
Mid (2)						
Far (3)						



- Three equal-sized rings are placed on the ground as shown in the diagram to the left
- Rings can be made of rope, flexible material, or painted on the ground to be 5.0 feet in diameter (15 feet 8<sup>1</sup>/<sub>2</sub> inches in circumference)
- The District and State O-Rama's will have structures within the rings resembling fish habitat, but this is not required at the County level
- Each contestant stands in the same spot on the ground or an elevated platform for all casts
- The distance from the contestant position is 15 feet to the closest edge of the "close" ring, 30 feet to the closest edge of the "mid" ring, and 45 feet to the closest edge of the "far" ring
- Contestants may use their own rod and reel, but they must use the same 3/8 ounce casting practice plugs as everyone else
- Each contestant is allowed one practice cast before their five scoring casts
- Contestants earn points when their plug lands within one of the rings, or hits the structure placed within the rings at the District and State O-Rama's
- Full points are awarded even if the plug bounces out of the ring after the initial impact with the ground or structure
- Landing within the "close" ring earns 1 point, the "mid" ring earns 2 points, and the "far" ring earns 3 points