



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.

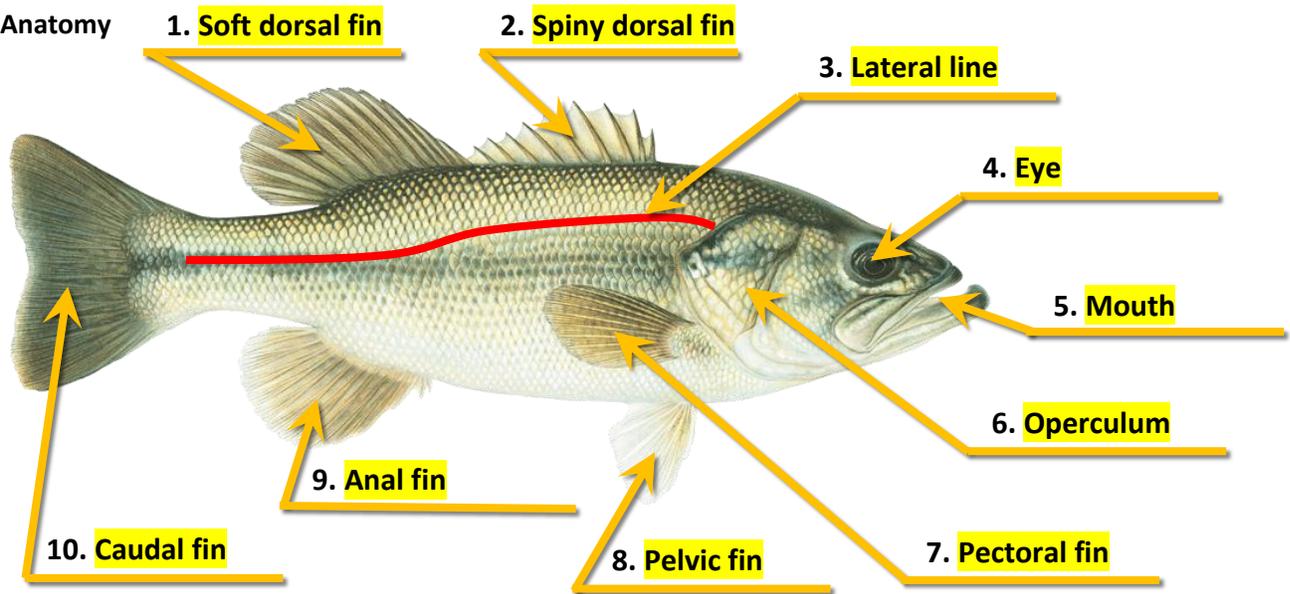
Physical prizes will be awarded to first-, second- and third-place winners at the State 4-H O-Rama.

PREPARED BY

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DISTRICT STUDY GUIDE

Anatomy



Word Bank

Pelvic fin	Anal fin	Operculum	Eye	Spiny dorsal fin
Caudal fin	Mouth	Lateral line	Soft dorsal fin	Pectoral fin

Fish Identification

Photos	Identification tips
	<p>Bluegill:</p> <ul style="list-style-type: none"> • Laterally compressed body • Small mouth • Dark blue flap on edge of operculum • Dark patch near based of soft-rayed dorsal fin
	<p>Green sunfish:</p> <ul style="list-style-type: none"> • Laterally compressed body • Larger mouth than similar looking bluegill • Bright blue streaks along cheeks • Most fins tipped with orange/white edges
	<p>Black crappie:</p> <ul style="list-style-type: none"> • Laterally compressed body • 7-8 dorsal fin spines • Moderately sized mouth • Silvery to silvery/green coloration • Dark blotches evenly distributed over body
	<p>White crappie:</p> <ul style="list-style-type: none"> • Laterally compressed body • 5-6 dorsal fin spines • Moderately sized mouth • Silvery to silvery/green coloration • Vertical bars
	<p>Striped bass:</p> <ul style="list-style-type: none"> • Long, almost cylindrically shaped body • Defined horizontal stripes usually unbroken • Slightly darker back fading to white belly • Two tooth patches near back of tongue
	<p>White bass:</p> <ul style="list-style-type: none"> • Stocky, football shaped body • Stripes faint, only one goes length of body • Slightly darker back fading to white belly • One tooth patch near back of tongue

**Blue catfish:**

- Barbels around the mouth
- Edge of anal fin almost straight
- 30-36 anal fin rays
- Usually slate/blue back, fading to white belly

**Rainbow trout:**

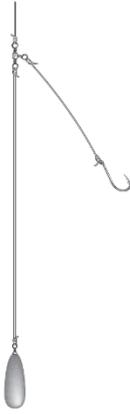
- Olive-greenish/blue back, white/silver belly
- Small dark spots along body and fins
- Faintly pink stripe down midline common
- Pelvic and anal fins often have white tips

**Brown trout:**

- Brownish back fading to often yellowish sides
- Dark spots surrounded by blue/grey halos
- Few to no spots on caudal fin

Tackle Identification

 <p>A spincast fishing reel with a silver and black body and two black handles.</p>	 <p>A spinning fishing reel with a silver and gold body and a single black handle.</p>
 <p>A baitcast fishing reel with a black body and two black handles.</p>	 <p>A long, thin Aberdeen hook with a sharp point and a curved hook.</p>
 <p>An offset hook with a long, straight shank and a curved hook.</p>	 <p>A circle hook with a curved shank and a curved hook.</p>
 <p>A split-shot sinker, a metal weight with a split top and a pointed bottom.</p>	 <p>A bell sinker, a teardrop-shaped metal weight with a small ring at the top.</p>
 <p>An egg sinker, a large, oval-shaped metal weight.</p>	 <p>A Carolina rig, a fishing rig consisting of a hook, a weight, and a spring.</p>

 <p>A fishing rig consisting of a main vertical line with a weight at the bottom and two shorter lines branching off from the top, each ending in a hook.</p>	 <p>A fishing rig featuring a red and white bobber at the top of a vertical line, with a hook at the bottom.</p>
 <p>A fishing lure with a green head and a large, dense, yellowish-brown tinsel skirt.</p>	 <p>A fishing fly with a green body, white hackles, and a hook.</p>
 <p>A fishing lure with a blue tinsel skirt and a silver blade on the head.</p>	 <p>A fishing lure with a green body, a white belly, and two treble hooks.</p>
 <p>A fishing lure with a green and silver body and a hook.</p>	

Multiple Choice Questions

(Correct answers are highlighted in yellow)

Regulations:

1. At age _____ and older with a valid Arkansas Boater Education Card, you are allowed to operate a motor boat without supervision: (Circle one)
A) 18
B) 16
C) 14
D) 12
2. Who is responsible for setting and enforcing fishing regulations on public waters in Arkansas: (Circle one)
A) The home owners next to the public water
B) The mayor of the largest town nearest to the public water
C) The United States Fish and Wildlife Service
D) The Arkansas Game and Fish Commission
3. Who is responsible for setting and enforcing fishing regulations on private waters in Arkansas: (Circle one)
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

Safety:

4. Children under the age of _____ must wear a well-fitting personal floatation device at all times while on board a fishing boat: (Circle one)
A) 10
B) 13
C) 16
D) 19
5. Which fins on catfish do you have to be careful about touching due to their large serrated spines: (Circle all that are true)
A) Pectoral
B) Pelvic
C) Anal
D) Dorsal
6. When bank or wade fishing along reservoir tailwaters you should: (Circle all that are true)
A) Never wade farther out than you can reliably and quickly return to shore
B) Always be aware of changes in water level or current speed
C) Listen for dam sirens if you are close enough to the dam to hear them
D) Stay out of restricted areas and obey all warning signage instructions

Biology:

7. Fish can feel water movement with their: (Circle one)
A) Lateral line
B) Gills
C) Fins
D) Operculum

8. Which of the following organs is most commonly used to control buoyancy: (Circle one)
- A) Barbels
 - B) Swim bladder
 - C) Operculum
 - D) Gills
9. Which fins can serve as the main source of forward movement, depending on species: (Circle all that are true)
- A) Pectoral
 - B) Anal
 - C) Dorsal
 - D) Caudal

Ecology:

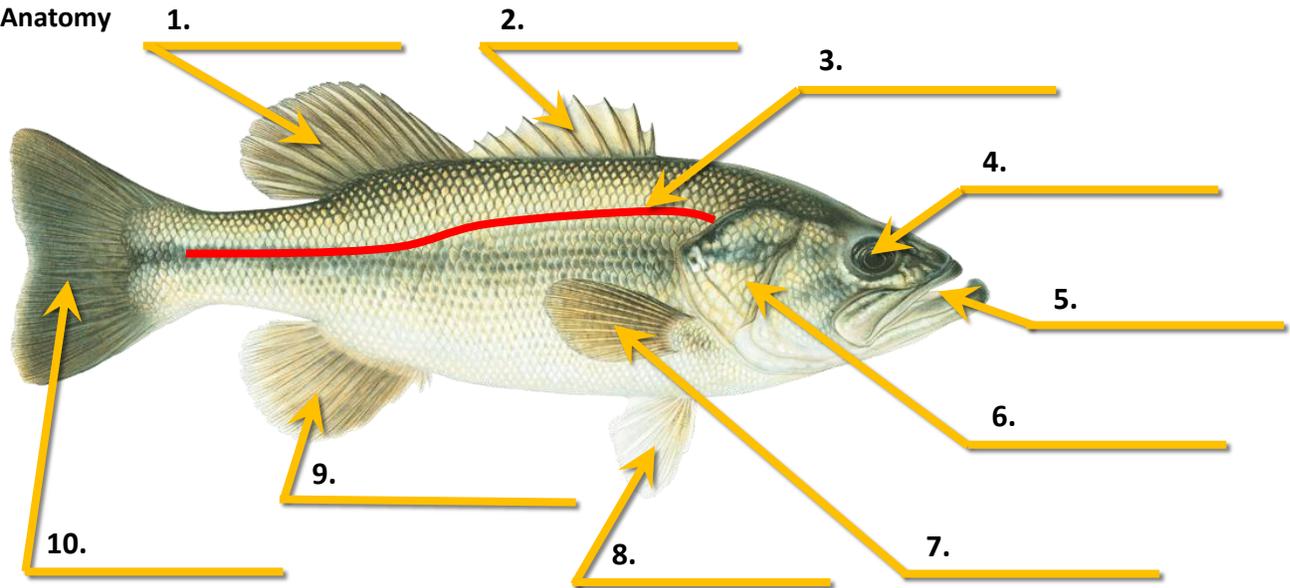
10. Piscivores eat: (Circle one)
- A) Fish
 - B) Plants
 - C) Plankton
 - D) Various types of food
11. Herbivores eat: (Circle one)
- A) Fish
 - B) Plants
 - C) Plankton
 - D) Various types of food
12. Omnivores eat: (Circle one)
- A) Fish
 - B) Plants
 - C) Plankton
 - D) Various types of food

Ethics:

13. You notice lots of dead fish in your private pond. 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 your county Cooperative Extension Service office
14. 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
15. 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

DISTRICT STUDY GUIDE BLANK

Anatomy



Word Bank

Pelvic fin	Anal fin	Operculum	Eye	Spiny dorsal fin
Caudal fin	Mouth	Lateral line	Soft dorsal fin	Pectoral fin

Fish Identification

Photos	Identification
	1
	2
	3
	4
	5
	6



7



8



9

Tackle Identification

 <p>1</p>	 <p>2</p>
 <p>3</p>	 <p>4</p>
 <p>5</p>	 <p>6</p>
 <p>7</p>	 <p>8</p>
 <p>9</p>	 <p>10</p>

 <p>11</p>	 <p>12</p>
 <p>13</p>	 <p>14</p>
 <p>15</p>	 <p>16</p>
 <p>17</p>	

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Name _____

District (circle one)

DELTA OUACHITA OZARK

County _____

Division (circle one)

JUNIOR SENIOR



DISTRICT PRACTICE SCORE SHEET

Anatomy

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Fish Identification

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Each fully correct answer earns 1 point

Total points earned on this page:

Tackle Identification

1. _____
2. _____
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16. _____
17. _____

Multiple Choice Questions

1. _____
2. _____
3. _____
4. _____
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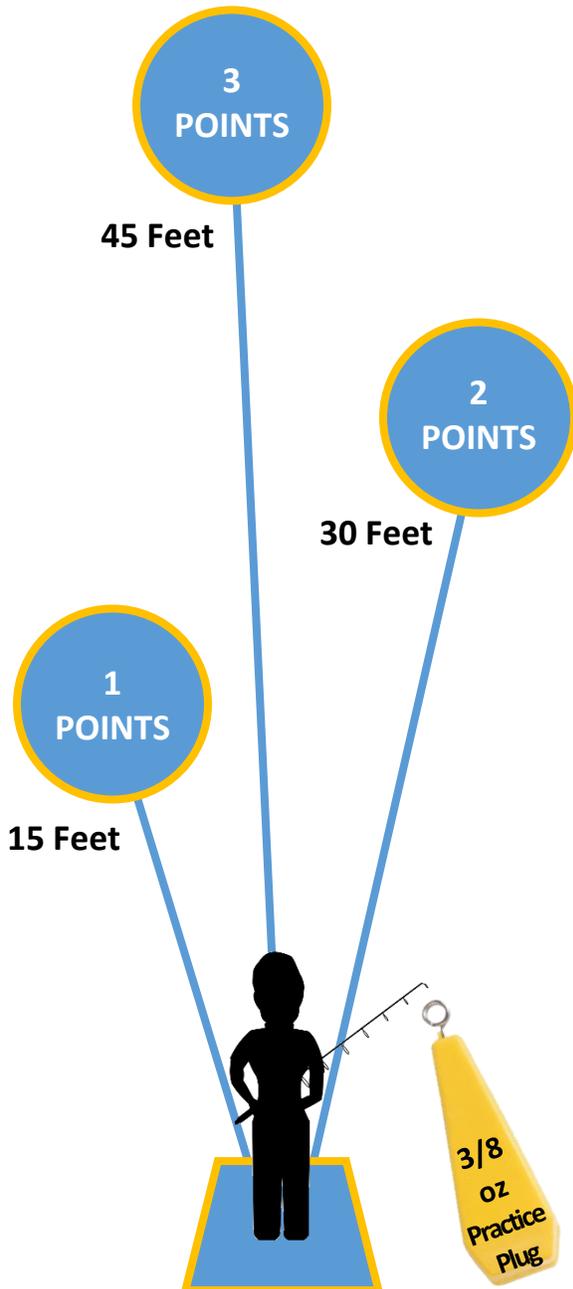
Total points earned on this page:

Grand total points earned:



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 $8\frac{1}{2}$ 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