



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.

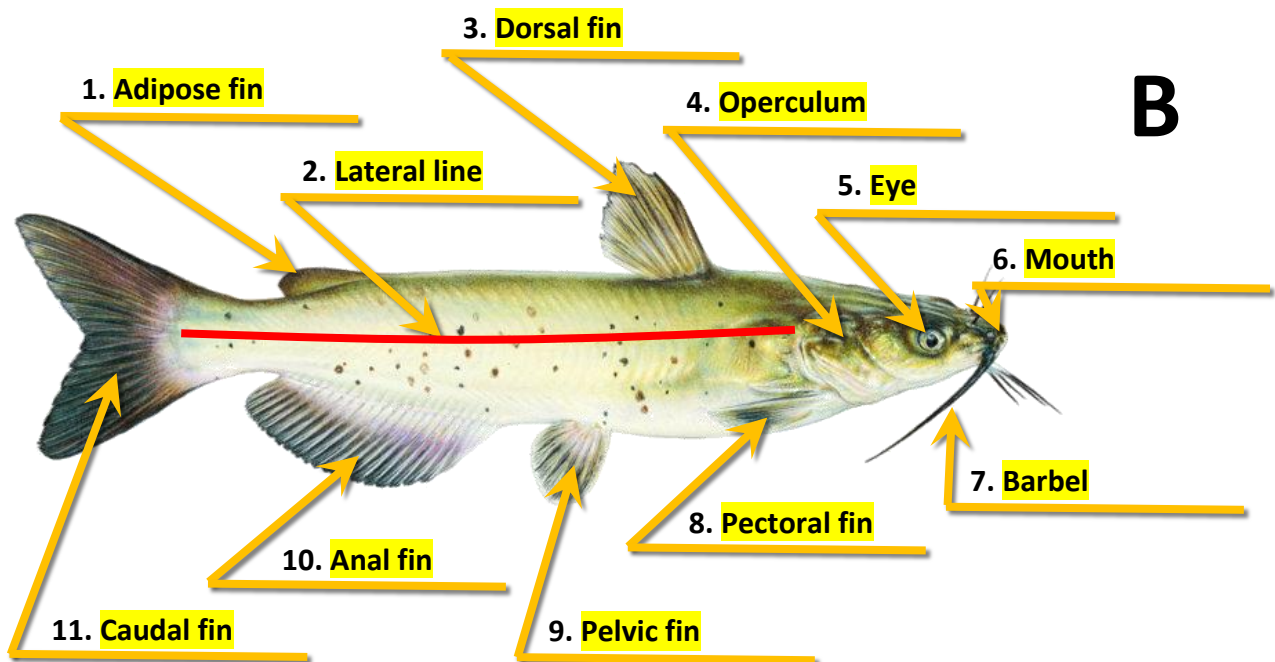
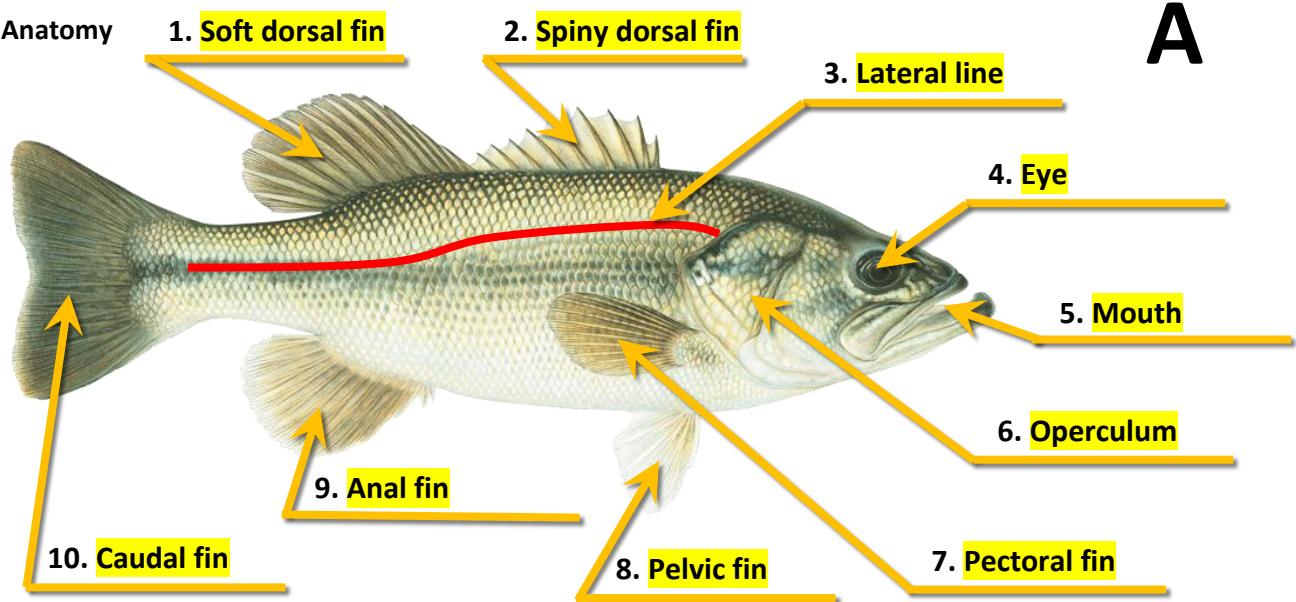
PREPARED BY

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Aquaculture and Fisheries Center - University of Arkansas at Pine Bluff
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STATE STUDY GUIDE

Anatomy







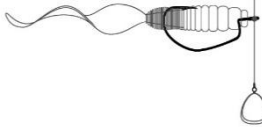







Fish Identification

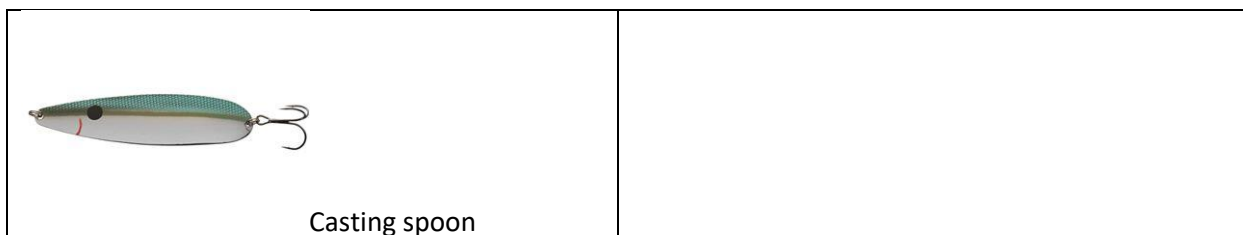
Photos	Identification tips
	Bluegill: <ul style="list-style-type: none"> • Laterally compressed body • Small mouth • Dark blue flap on edge of operculum • Dark patch near based of soft-rayed dorsal fin
	Green sunfish: <ul style="list-style-type: none"> • Laterally compressed body • Larger mouth than similar looking bluegill • Bright blue streaks along cheeks • Most fins tipped with orange/white edges
	Black crappie: <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
	White crappie: <ul style="list-style-type: none"> • Laterally compressed body • 5-6 dorsal fin spines • Moderately sized mouth • Silvery to silvery/green coloration • Vertical bars
	Largemouth bass: <ul style="list-style-type: none"> • Jaw extends beyond the back side of the eye • Dorsal fins separated by a notch • Deep olive green back fading to white belly • One row of thick dark splotches down midline
	White bass: <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

	<p>Channel catfish:</p> <ul style="list-style-type: none"> • Barbels around the mouth • Edge of anal fin rounded • 24-29 anal fin rays • Often spotted, brown-blue back, white belly
	<p>Blue catfish:</p> <ul style="list-style-type: none"> • Barbels around the mouth • Edge of anal fin almost straight • 30-36 anal fin rays • Usually slate/blue back, fading to white belly
	<p>Rainbow trout:</p> <ul style="list-style-type: none"> • 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
	<p>Brown trout:</p> <ul style="list-style-type: none"> • Brownish back fading to often yellowish sides • Dark spots surrounded by blue/grey halos • Few to no spots on caudal fin
	<p>Spotted gar</p> <ul style="list-style-type: none"> • Dark splotches scattered all over body • Moderately long snout with teeth • Dorsal fin far back on body • Rounded caudal fin
	<p>Alligator gar</p> <ul style="list-style-type: none"> • Mostly spotless body, except around the tail • Broad snout with teeth, resembling alligator's • Dorsal fin far back on body • Rounded caudal fin
	<p>Bowfin</p> <ul style="list-style-type: none"> • Cylindrical body with somewhat blunt head • Strong thick jaws with teeth • Long continuous dorsal fin • Rounded caudal fin, often with dark eye spot

Tackle Identification

 <p>A silver-colored fly fishing reel with a large spool and a wooden handle.</p>	 <p>A silver-colored spincast fishing reel with a black handle and a black foot.</p>
 <p>A silver-colored spinning fishing reel with a black handle and a black foot.</p>	 <p>A black baitcast fishing reel with a black handle and a black foot.</p>
 <p>A long, thin, curved fishing hook with a sharp point.</p>	 <p>A black fishing hook with a curved shape and a sharp point.</p>
 <p>A black fishing hook with a curved shape and a sharp point.</p>	 <p>A black fishing hook with three sharp points.</p>
 <p>A silver-colored split-shot sinker with a split design.</p>	 <p>A silver-colored bell-shaped sinker with a small ring at the top.</p>

 <p>Bullet sinker</p>	 <p>Egg sinker</p>
 <p>Texas rig</p>	 <p>Carolina rig</p>
 <p>Drop shot rig</p>	 <p>3-Way rig</p>
 <p>Trout fly</p>	 <p>Inline spinner</p>
 <p>Bladed jig</p>	 <p>Buzzbait</p>
 <p>Topwater popper</p>	 <p>Soft plastic lure</p>



Multiple Choice Questions

(Correct answers are highlighted in yellow)

Regulations:

- At age _____ and older, you are required to have a fishing license to fish public waters in Arkansas: (Circle one)
 - 18
 - 16**
 - 14
 - 12
- Who is responsible for setting and enforcing fishing regulations on public waters in Arkansas: (Circle one)
 - The home owners next to the public water
 - The mayor of the largest town nearest to the public water
 - The United States Fish and Wildlife Service
 - The Arkansas Game and Fish Commission**
- How many fish of one species are you allowed to keep in a single day: (Circle all 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**
 - As many as the land owner says for that location and species in private waters**
 - As many as I can fit in my ice chest
 - 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)
 - Standard length
 - Total length**
 - Fork length
 - Fin length

Safety:

- Children under the age of _____ must wear a well-fitting personal floatation device at all times while on board a fishing boat: (Circle one)
 - 10
 - 13**
 - 16
 - 19
- In the event of a small cut or puncture from a tooth, operculum or spine, you should: (Circle one)
 - Immediately rinse the injury in the lake, pond or river water nearest to you and cover with a bandage
 - Apply pressure to the injury to stop bleeding, rinse the injury with clean water, apply an antibiotic cream, then cover with a bandage**
 - Scratch the injury to clear it of fish mucus then allow to air dry
 - Rub mud into the injury to stop bleeding and cover with a bandage

7. 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

8. 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

Biology:

9. True fish all have these things in common: (Circle all that are true)

A) Fins
B) Scales
C) Gills
D) Vertebra

10. Which of the following are fish: (Circle all that are true)

A) Blue whale
B) Red swamp crayfish
C) Blue Catfish
D) White shark

11. Fish can feel water movement with their: (Circle one)

A) Lateral line
B) Gills
C) Fins
D) Operculum

12. Fish _____ plays a major role in protection from diseases: (Circle one)

A) Gall bladder
B) Skin mucus
C) Fins
D) Operculum

Ecology:

13. Which of the following can be habitat for invertebrates and fishes to live around: (Circle all that are true)

A) Rocks
B) Vegetation
C) Stumps
D) Brush

14. Piscivores eat: (Circle one)

A) Fish
B) Plants
C) Plankton
D) Various types of food

15. Which of the following Arkansas fish is primarily a piscivore/predator: (Circle one)

A) Fathead minnow
B) White drum
C) Paddlefish
D) Smallmouth bass

16. Which of the following fish is primarily a planktivore: (Circle one)

A) Fathead minnow
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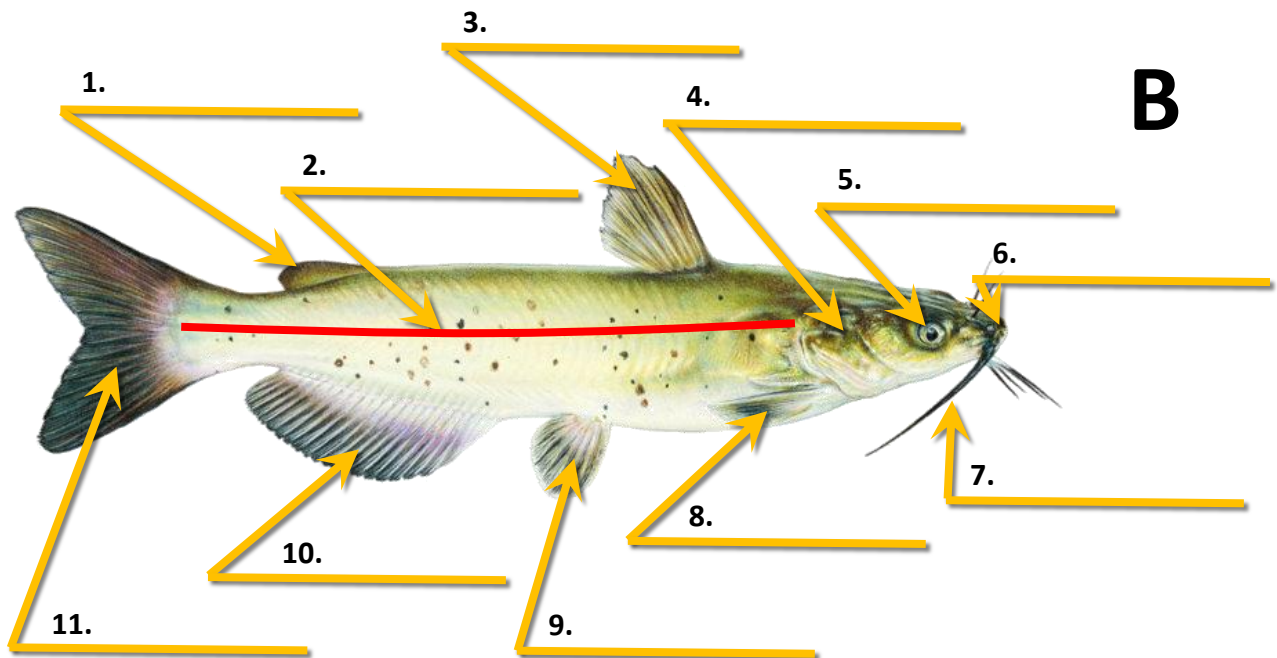
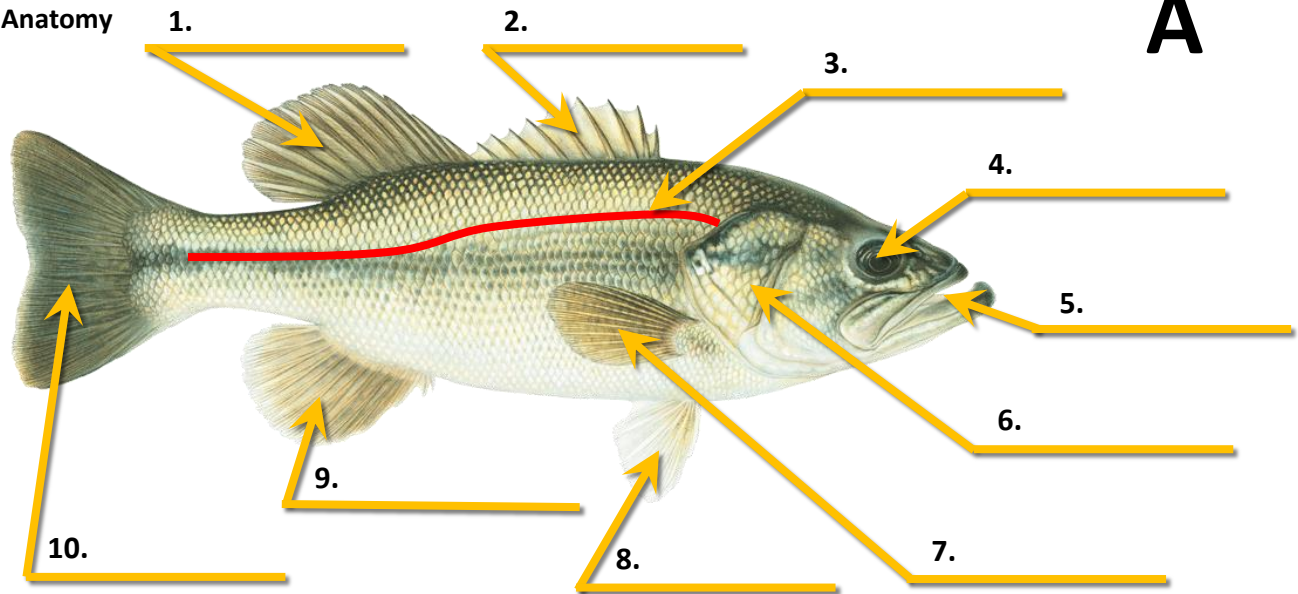
Ethics:

17. You find a pond you would like to fish but it appears to be on private property. You should: (Circle one)
- A) Contact Arkansas Game and Fish Commission for permission to fish it
 - B) Contact the property owner for permission to fish it
 - C) Fish it without permission
 - D) Never fish it
18. 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
19. You've accumulated some trash in your boat from retying your line and discarding broken plastic baits. You should: (Circle one)
- A) Collect them and dispose of them in the nearest recycling or garbage container
 - B) Toss them in the lake because they decompose
 - C) Leave them at the boat ramp for park staff to dispose of
 - D) Allow them to accumulate to the point that you can't see the floor of your boat for the trash
20. 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
















STATE STUDY GUIDE BLANK

Anatomy







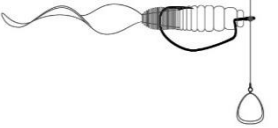







Fish Identification

Photos	Identification tips
	1
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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>	 <p>18</p>
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23

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Name _____

District (circle one)

DELTA OUACHITA OZARK

County _____

Division (circle one)

JUNIOR SENIOR



STATE PRACTICE SCORE SHEET

Anatomy

1. _____
2. _____
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Fish Identification

1. _____
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12. _____
13. _____

Each fully correct answer earns 1 point

Total points earned on this page:

Tackle Identification

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Multiple Choice Questions

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20. _____

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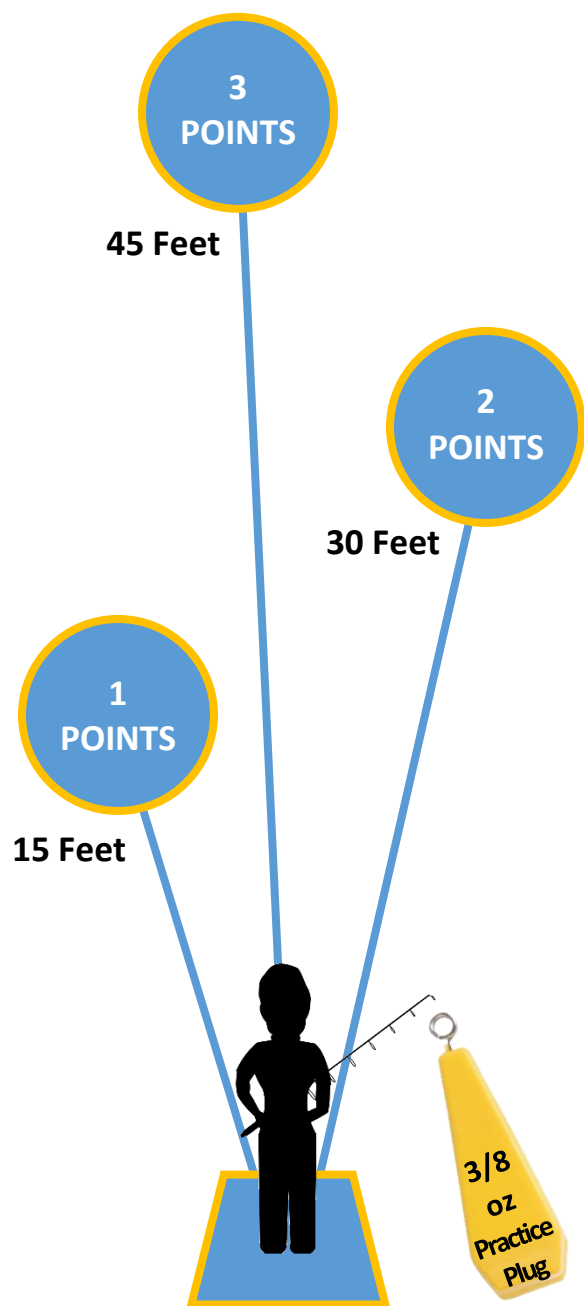
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Grand total points earned:



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