

SWIM INTO THE SEA SCAVENGER HUNT!

For extra fun, see which group can swim through the fastest

Grades 4th – 8th

Stroke 1: Guess which Gallery!

Stroke 2: Answer the questions and follow the directions.

Stroke 3: Check your answers!

Gallery #1 _____

1. Name a grazer that can destroy kelp by eating holdfasts. _____
2. What animal creates its' own calcium carbonate skeleton? _____
3. Take a picture of your group with a sea urchin!
4. T/F kelp can be male or female? _____
5. There are 1,300 species of African _____
6. What shark glows green? _____
7. T/F kelp has a bladder? _____
8. What natural wonder in Australia can be seen from space? _____
9. T/F plume anemone have 100,000 tentacles? _____
10. Name 3 threats to kelp. _____
11. The California sea hare can release _____ colored ink.
12. How many stripes do the tiger rockfish have? _____
13. Take a picture in front of kelp that is taller than you! _____
14. What do fish use to "glow in the dark"? _____
15. How many hearts does a Pacific hagfish have? _____
16. What are two types of coral? _____
17. T/F the giant isopod has to eat every hour? _____
18. T/F kelp is a plant? _____
19. Name 6 things that kelp is used to make.

Gallery #2 _____

- 1. You are _____ times more likely to be killed by a coconut than a shark.**
- 2. The Oklahoma Aquarium has the largest collection of _____ in the US.**
- 3. What are the special scales called that make a shark feel rough? _____**
- 4. T/F bull sharks can be found in the Mississippi River? _____**
- 5. What are the electricity sensing pores on a shark called? _____**
- 6. Name three prehistoric sharks. _____**
- 7. You are _____ times more likely to be stuck by lightening then killed by a shark.**
- 8. T/F a shark can smell a drop a blood in an Olympic sized pool?**
- 9. Which shark (bull or nurse) has barbels? _____**
- 10. What do divers wear for protection when cleaning the shark tank? _____**
- 11. How much water is in the shark tank? _____**
- 12. How many hard, calcium based bones does a shark have? _____**
- 13. What does the name Megalodon mean? _____**
- 14. Which shark (bull or nurse) tends to lie on the bottom? _____**
- 15. Take a picture of your group with both species of sharks!**
- 16. Which shark (bull or nurse) has to constantly swim in order to breathe? _____**

Gallery #3 _____

1. **T/F anemones can sting?** _____
2. **What is the largest species of jellyfish in the world?** _____
3. **T/F sea stars have blood?** _____
4. **Why do horseshoe crabs have blue blood?** _____
5. **How many species of gastropods are there?** _____
6. **Take a picture of your group with a sea star!**
7. **What type of lobster uses shovel like structures on their head to dig?** _____
8. **What is one difference between prawn and shrimp?** _____
9. **How many gallons of water can a football sized sponge clean daily?** _____
10. **What shellfish is used to make jewelry called “mother of pearl”?** _____
11. **How big can the biggest species of jelly grow?** _____
12. **Approximately how much shrimp do Americans eat each year?** _____
13. **Take a picture of your group with an anemone!**
14. **What do leather stars smell like out of the water?** _____

Gallery #4 _____

1. **What is the second largest rodent in the world?** _____
2. **What creates plunge pools?** _____
3. **What is a beaver’s home called?** _____
4. **The Oklahoma Aquarium has river or sea otters?** _____
5. **How long can a beaver stay underwater?** _____
6. **T/F a otter’s skin doesn’t get wet in the water?** _____
7. **The otter has at least _____ hairs per square inch of their body.**

Gallery #5 _____

1. **What fish forms a mud ball around itself and can survive inside, out of water, for 4 years?** _____
2. **T/F cowfish have very weak scales?** _____
3. **Why have blind cave fish evolved to not have eyes?** _____
4. **What fish swims vertically and hides in urchin spines?** _____
5. **Lionfish can consume _____ times their stomach volume?**
6. **T/F moray eels have two sets of jaws?** _____

Gallery #6 _____

1. **T/F Iguanas are called chicken of the trees?** _____
2. **The Amazon contains _____ of all the river water on the planet?**
3. **T/F There are venomous stingrays in the freshwater?** _____
4. **What is unique about pacu teeth?** _____
5. **T/F Iguanas will drown in the water?** _____
6. **The redbtail catfish have what kind of spine for defense?** _____
7. **What catfish is called the “talking catfish”?** _____
8. **What fish can jump 6 ft out of the water to eat bugs and birds?** _____
9. **T/F Eating an iguana will poison you?** _____
10. **What is the lump on the midas cichlids head called?** _____
11. **The Amazon River runs through _____ countries?**

Gallery #7 _____

1. T/F baby sea turtles float in seaweed for protection for several years? _____
2. T/F If a sea turtle eats a jellyfish, it will get stung and can die? _____
3. Which species of sea turtle is the largest? _____
4. Which species of sea turtle are threatened or endangered? _____
5. Which shark looks like a juvenile hammerhead? _____
6. T/F Loggerhead sea turtles live for 10 years? _____
7. Where do female sea turtles lay their eggs? _____

Gallery #8 _____

1. T/F There is a fish called a smallmouth zebra? _____
2. The bowfin can live out of the water for _____ hours?
3. What is another name for a paddlefish? _____
4. The metamorphosis time for a leopard frog is _____ days?
5. What are the whiskers on a catfish called? _____
6. How many pounds does an alligator snapping turtle gain per year? _____
7. Longnose gar are also called? _____
8. The water dog is the larval stage of what animal? _____
9. A group of frogs is called a what? _____
10. Bullfrogs can jump _____ feet high?

Gallery #9 _____

1. **T/F Poison dart frogs are poisonous due to the insects they eat?** _____
2. **Take a picture of your group with the giant Pacific octopus, but remember, NO FLASH!**
3. **What long fish is blue but looks green because of being covered in yellow mucus?**

4. **What animal can change its color and texture in the blink of an eye?** _____
5. **How high can an archerfish shoot water?** _____
6. **Seahorses move at _____ mph?**
7. **What are the cells that produce electricity in the electric eel?** _____
8. **How heavy was the biggest octopus ever caught?** _____
9. **What eel changes color throughout its life stages?** _____
10. **How many species of piranha are there?** _____
11. **Seahorses are _____ because they are used in traditional medicine and as souvenirs.**
12. **What is it called when a fish can sense an electric field in the water?** _____
13. **T/F Some jellyfish have algae that live inside them and provide energy?** _____

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ANSWER KEY

Grades 4th – 8th

Stroke 1: Guess which Gallery!

Stroke 2: Answer the questions and follow the directions.

Stroke 3: Check your answers!

Gallery #1 - EcoZone

1. Name a grazer that can destroy kelp by eating holdfasts. Sea urchin
2. What animal creates its' own calcium carbonate skeleton? Coral
3. Take a picture of your group with a sea urchin!
4. T/F kelp can be male or female? True
5. There are 1,300 species of African cichlids
6. What shark glows green? swell shark
7. T/F kelp has a bladder? True
8. What natural wonder in Australia can be seen from space? Great Barrier Reef
9. T/F plume anemone have 100,000 tentacles? False, it has 1000
10. Name 3 threats to kelp. Grazers, overharvesting and pollution
11. The California sea hare can release pink colored ink.
12. How many stripes do the tiger rockfish have? five
13. Take a picture in front of kelp that is taller than you!
14. What do fish use to “glow in the dark”? Bio-luminescence
15. How many hearts does a Pacific hagfish have? five
16. What are two types of coral? Soft and Stony
17. T/F the giant isopod has to eat every hour? False, it can go 5 years without eating
18. T/F kelp is a plant? False, it is an algae
19. Name 6 things that kelp is used to make
Lipstick, ice cream, fertilizer, pet food, toothpaste, chocolate milk

Gallery #2 – Siegfried Family Shark Adventure

1. You are **15** times more likely to be killed by a coconut than a shark
2. The Oklahoma Aquarium has the largest collection of **bull sharks** in the US
3. What are the special scales called that make a shark feel rough? **Dermal denticles**
4. T/F bull sharks can be found in the Mississippi River? **True, they have been found 1500 miles up**
5. What are the electricity sensing pores on a shark called? **Ampullae of Lorenzini**
6. Name three prehistoric sharks. **helicoprion, xenacanthus, stethacanthus**
7. You are **30** times more likely to be stuck by lightening then killed by a shark.
8. T/F a shark can smell a drop a blood in an Olympic sized pool? **True**
9. Which shark (bull or nurse) has barbels? **Nurse shark, they are used to sense food on the bottom**
10. What do divers wear for protection when cleaning the shark tank? **Chain mail**
11. How much water is in the shark tank? **Almost 1/2 million gallons**
12. How many hard, calcium based bones does a shark have? **None, their skeleton is made of cartilage**
13. What does the name Megalodon mean? **Giant tooth**
14. Which shark (bull or nurse) tends to lie on the bottom? **Nurse shark, they can push water over their gills**
15. Take a picture of your group with both species of sharks!
16. Which shark (bull or nurse) has to constantly swim in order to breathe? **Bull sharks**

Gallery #3 – Amazing Invertebrates

1. T/F anemones can sting? **True, they are related to jellyfish and have stinging cells**
2. What is the largest species of jellyfish in the world? **Lion's mane jellyfish**
3. T/F sea stars have blood? **False, they pump seawater through their bodies**
4. Why do horseshoe crabs have blue blood? **It is copper based, not iron like ours**
5. How many species of gastropods are there? **40,000**
6. Take a picture of your group with a sea star!
7. What type of lobster uses shovel like structures on their head to dig? **Slipper lobster**
8. What is one difference between prawn and shrimp? **Prawn are bigger, different gills, different back structures**
9. How many gallons of water can a football sized sponge clean daily? **2000 gallons**
10. What shellfish is used to make jewelry called “mother of pearl”? **red abalone**
11. How big can the biggest species of jelly grow? **120 feet long**
12. Approximately how much shrimp do Americans each yearly? **1 trillion pounds**
13. Take a picture of your group with an anemone!
14. What do leather stars smell like out of the water? **Strong garlic**

Gallery #4 – Hayes Family Ozark Stream

1. What is the second largest rodent in the world? **American beaver**
2. What creates plunge pools? **waterfalls**
3. What is a beaver's home called? **A lodge**
4. The Oklahoma Aquarium has river or sea otters? **River otters**
5. How long can a beaver stay underwater? **15 minutes**
6. T/F a otter's skin doesn't get wet in the water **True, the fur traps air against the skin**
7. The otter has at least **150,000** hairs per square inch of their body

Gallery #5 – Extreme Fish

1. What fish forms a mud ball around itself and can survive inside, out of water, for 4 years? **African lungfish**
2. T/F cowfish have very weak scales? **False, they have strong armor like plates**
3. Why have blind cave fish evolved to not have eyes? **It saves energy for other body functions**
4. What fish swims vertically and hides in urchin spines? **Shrimpfish**
5. Lionfish can consume **30** times their stomach volume?
6. T/F moray eels have two sets of jaws? **True, it allows them to swallow their food in tight spaces**

Gallery #6 – Extreme Amazon

1. T/F Iguanas are called chicken of the trees? **True, they are called Pollo de Gallo**
2. The Amazon contains **1/5** of all the river water on the planet?
3. T/F There are venomous stingrays in the freshwater? **True**
4. What is unique about pacu teeth? **They are square and human looking**
5. T/F Iguanas will drown in the water? **False, they are good swimmers**
6. The redbtail catfish have what kind of spine for defense? **Venomous dorsal spine**
7. What catfish is called the “talking catfish”? **Ripsaw catfish, because of the loud noises they make**
8. What fish can jump 6 ft out of the water to eat bugs and birds? **Silver arowana**
9. T/F Eating an iguana will poison you? **False, people regularly eat them**
10. What is the lump on the midas cichlids head called? **Nuchal hump, it is used for mating**
11. The Amazon River runs through **6** countries?

Gallery #7 – Sea Turtle Island

1. T/F baby sea turtles float in seaweed for protection for several years? True, they used to be called the lost years
2. T/F If a sea turtle eats a jellyfish, it will get stung and can die? False, they are a favorite sea turtle food
3. Which species of sea turtle is the largest? Leatherback, reaching 1500 pounds
4. Which species of sea turtle are threatened or endangered? All 7
5. Which shark looks like a juvenile hammerhead? The bonnethead, they are related to hammerheads
6. T/F Loggerhead sea turtles live for 10 years? False, they can live more than 100 years
7. Where do female sea turtles lay their eggs? On the beach they were born

Gallery #8 – Aquatic Oklahoma

1. T/F There is a fish called a smallmouth zebra? False, it's a smallmouth buffalo
2. The bowfin can live out of the water for 24 hours?
3. What is another name for a paddlefish? Spoonbill, they are known for their roe
4. The metamorphosis time for a leopard frog is 90 days?
5. What are the whiskers on a catfish called? Barbels, for finding food in the mud
6. How many pounds does an alligator snapping turtle gain per year? About 1 pound
7. Longnose gar are also called? Needlenose gar
8. The water dog is the larval stage of what animal? Eastern tiger salamander
9. A group of frogs is called a what? An army
10. Bullfrogs can jump 6 feet high?

Gallery #9 – **Marvels and Mysteries**

1. T/F Poison dart frogs are poisonous due to the insects they eat? **True**
2. Take a picture of your group with the giant Pacific octopus, but remember, **NO FLASH!**
3. What long fish is blue but looks green because of being covered in yellow mucus?
Green moray eel
4. What animal can change its color and texture in the blink of an eye? **octopus**
5. How high can an archerfish shoot water? **10 feet**
6. Seahorses move at **.02** mph?
7. What are the cells that produce electricity in the electric eel? **Electrocytes**
8. How heavy was the biggest octopus ever caught? **600 pounds, a giant Pacific octopus**
9. What eel changes color throughout its life stages? **Ribbon eel, it changes color and sex**
10. How many species of piranha are there? **25 and many are herbivores**
11. Seahorses are **overharvested** because they are used in traditional medicine and as souvenirs.
12. What is it called when a fish can sense an electric field in the water?
electroreception
13. T/F Some jellyfish have algae that live inside them and provide energy? **True, the algae uses photosynthesis from the sun**