

# 9th–12th Grade Scavenger Hunt



Name: \_\_\_\_\_

The South Carolina Aquarium is designed to show you the habitats of South Carolina, from the mountains to the sea. Head up the escalator to start your journey through our state! This information is helpful:

- Answers for **page 1** are found in no certain order.
- Answers for **pages 2–4** can be found in order by starting in the mountains and walking to the sea.

## All Galleries

Match the following terms to the correct relationship and list the Aquarium exhibit in which the animal can be found.

- A     **Predation** – to eat another organism  
B     **Competition** – to fight for a resource  
C     **Parasitism** – when an organism lives on or in another organism at that organism's expense  
D     **Mutualism** – when two organisms live together and both benefit  
E     **Commensalism** – when one organism benefits from another organism and the other doesn't benefit or suffer

<i>Place correct letter here</i>	<b>Description of relationship</b>	<b>Aquarium exhibit</b>
	Hermit crab anemones live on hermit crabs in order to find food and "hitch a ride." <b>Hermit crabs</b> don't mind at all because the anemone offers protection.	
	<b>River otters</b> prey on brook trout in mountain streams.	
	Some <b>horseshoe crabs</b> have slipper shells living on them. It does not harm the horseshoe crab, but the slipper shells have a safe home on the hard shell of the horseshoe crab.	
	Male <b>dollar sunfish</b> fight with fish in order to protect their gravel nest.	
	Tapeworms live inside a <b>sea turtle's</b> digestive system causing damage by stealing the turtle's nutrition.	
	<b>Porkfish</b> are cleaner fish. They eat old scales and debris off larger fish like a gag grouper. Gag groupers don't mind this because it keeps them healthy.	
	<b>Spiny lobsters</b> are territorial of their homes, often aggressively guarding their homes from fish and other lobsters.	
	A <b>gopher tortoise</b> can dig a 30-foot burrow for shelter. Many other animals can hide in these burrows during forest fires, and the tortoise will share the space.	

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## The Mountains

### ***Bald Eagle exhibit:***

In 1967, bald eagle populations had declined because of DDT. What is DDT and how did it hurt the eagles?

What is bioaccumulation?

*Thinking question:* What can we learn from the DDT/eagle issue?

## Piedmont

### ***Reservoir exhibit:***

Name two pros and two cons of damming a river.

<b>Pro:</b>	1)	<b>Con:</b>	1)
	2)		2)

### ***Shifting Shorelines exhibit:***

Aquatic insects can tell us a lot about the health of a water ecosystem. Match the aquatic insect to the correct water quality.

Hellgrammites	Poor water quality
Mayflies	Excellent water quality
Bloodworms	Good water quality

*Thinking question:* How could you use the above information to help you find the best fishing river?

## Coastal Plain

### ***Swamp IQ Test:***

List two reasons why swamps are vital ecosystems in South Carolina.

1.

2.

### ***Carolina Bay exhibit:***

Why are carnivorous plants found in Carolina bays and no other habitat in South Carolina?

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## Saltmarsh

Name two functions of a saltmarsh.

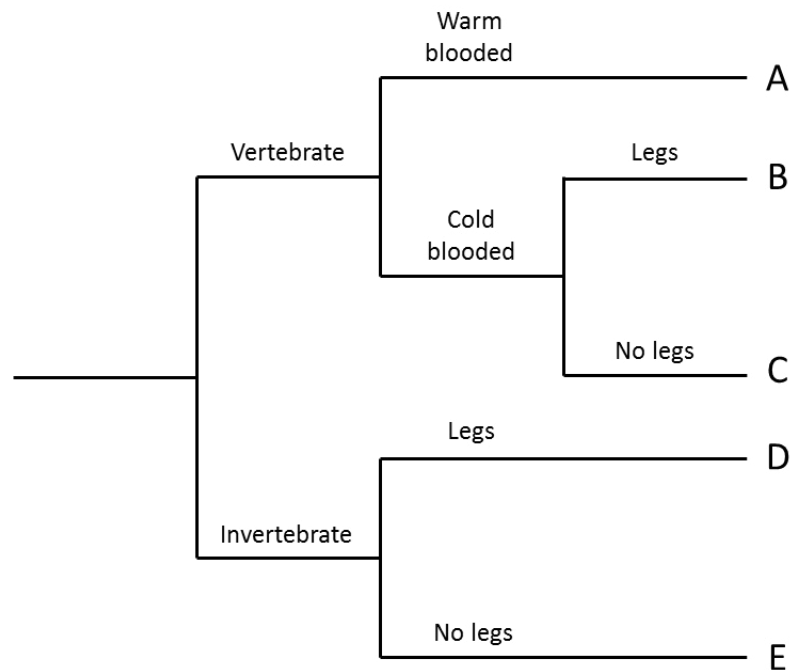
1.

2.

*Thinking question:* What would happen to South Carolina's coast if our saltmarshes were destroyed?

A phylogenetic tree shows the relationships between biological species based on their similarities and differences. Place the correct letter from the tree next to each saltmarsh animal.

- \_\_\_ Diamondback terrapin
- \_\_\_ Oyster
- \_\_\_ White ibis
- \_\_\_ Blue crab
- \_\_\_ Mullet



## Coast

### ***Aquatic Invaders exhibit***

Lionfish are invaders. Even though they are beautiful, they should not be in the waters of South Carolina. Explain why they are such a problem.

What can be done to help the problem?

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## Ocean

### ***Great Ocean Tank***

The IUCN (International Union for Conservation of Nature) lists animals based on their conservation status. Use the touch screens at the Great Ocean Tank to find three animals for each of these conservation statuses:

#### **Near Threatened (NT):**

- 1.
- 2.
- 3.

#### **Vulnerable (VU):**

- 1.
- 2.
- 3.

*Thinking question:* How is this information helpful to humans?

### ***Lower Ocean Gallery***

What is an artificial reef? List one reason they are beneficial.

What is a Marine Protected Area? List one reason they are beneficial.

## **Zucker Family Sea Turtle Recovery™**

There are seven sea turtle species in the world. Four of those seven live off the coast of South Carolina. Match the sea turtle species to the correct fact.

#### Sea Turtle Species

Green sea turtle

Kemp's ridley sea turtle

Leatherback sea turtle

Loggerhead sea turtle

#### Sea Turtle Fact

Most endangered sea turtle in the world

Most common nesting sea turtle in South Carolina

Only sea turtle that eats sea grasses

Largest sea turtle in the world

List two ways humans can harm sea turtles	List two things humans can do to protect sea turtles
1.	1.
2.	2.