

www.dnr.sc.gov/marine/NERR/education.html

#### What is the ACE Basin?

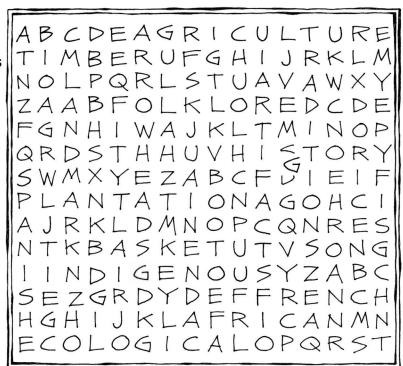
The ACE Basin is a coastal region of South Carolina. It is one of the largest estuaries on the East Coast of the United States. Inland areas are forests, with extensive marshes spreading toward the ocean. It is home to abundant plant and animal life, including many endangered species. This region also has a rich history of culture and tradition. The way to say it: Ashepoo ... ASHY-poo To discover the three rivers from which Combahee ... CUM-bee the ACE Basin was named, follow the path through the maze. Put each letter, in order, Edisto ... ED-i-stow on the blanks below. The \_\_ \_ \_ \_ \_ \_ \_, the \_\_ \_ \_ \_ \_, and the Rivers.

# **Home for People**

The ACE Basin has been inhabited by humans since indigenous peoples settled here about 6,000 years ago. The Edisto, Combahee, and Ashepoo are names of American Indian tribes whose legacies now live on in the names of our rivers. In the sixteenth century, French and Spanish colonists established settlements alongside indigenous tribes. Within three centuries, disease, displacement and warfare caused indigenous communities to dwindle and, in many cases, go extinct. European colonists introduced large-scale agriculture to the landscape, a system made possible only through the enslavement of Africans and African-Americans. These enslaved people and their descendants created a unique culture and language called Gullah or Gullah Geechee. Because their enslavement was on remote, isolated coastal plantations, they were able to retain many of their indigenous African traditions, which still continue today through culinary practices, folklore, and song. The artistry of basket making is one of the most visible ongoing practices of the Gullah people.

Circle the words, from this list, in the word search.

African agriculture arrowheads artifacts basket ecological folklore French Gullah history indigenous landmarks plantation rice song Spanish timber traditions



# **Practice Clean Boating!**

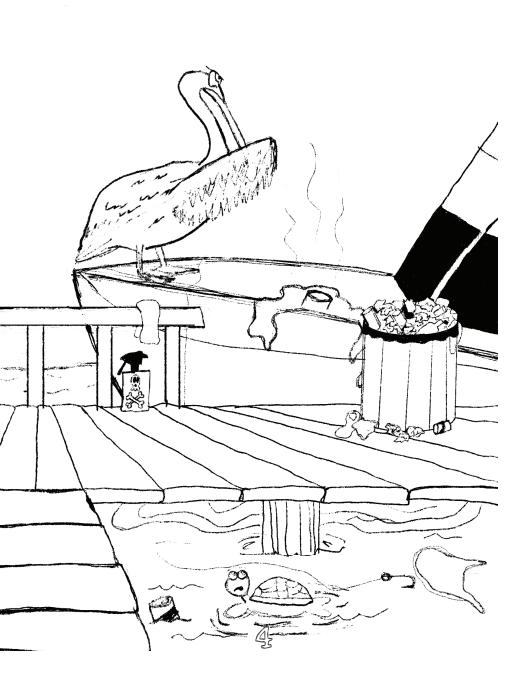
Keep our waterways free from oil, trash, and sewage by following these best clean boating practices:

- · Watch for wildlife by boating slowly when in shallow coastal areas
- Stash your trash and pick up trash when you see it
- Recycle your fishing line
- Keep sewage out of our waterways by using a pump-out station

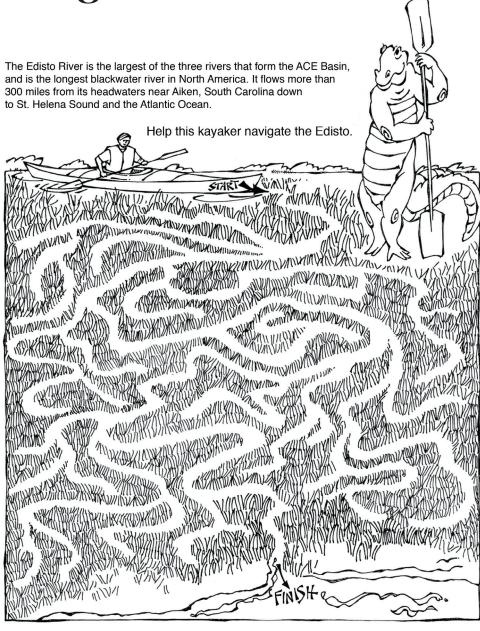


# What doesn't Belong?

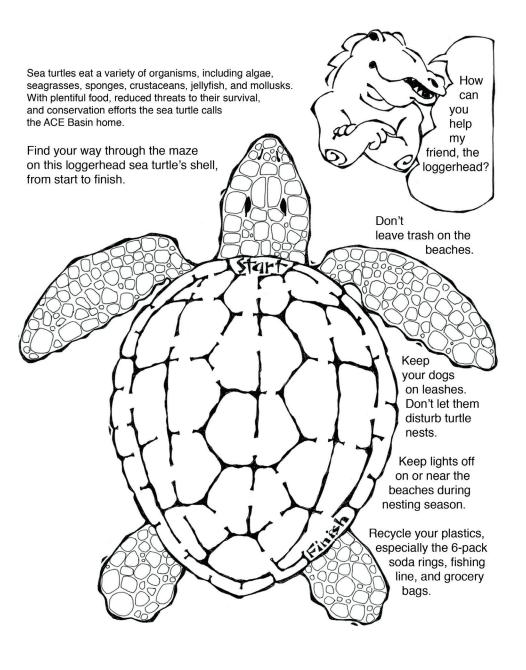
Pollutants in our waterways cause harm to humans, plants, and animals. Look at the picture below and circle what doesn't belong in our waterways.



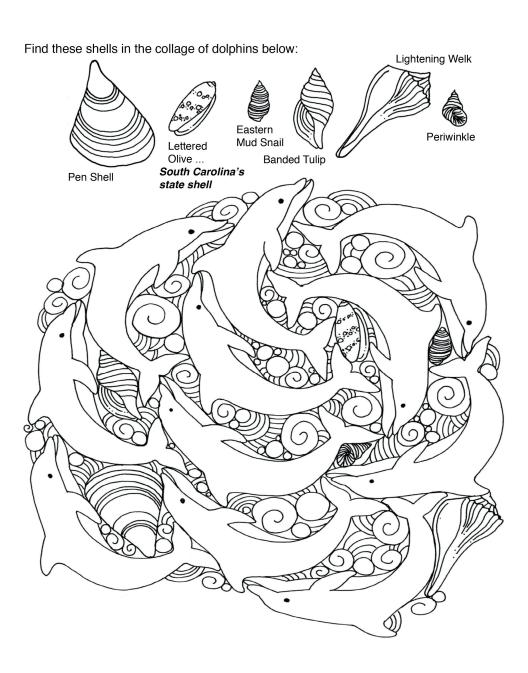
Navigate the Edisto



### **Home Sweet Home**



## **Hidden Pictures**



# You Are Here

Label the areas of the ACE Basin on the map,

using this list: Ashepoo River Atlantic Ocean

Combahee River Edisto River

St. Helena Sound





### Snakes in the ACE

Snakes play important ecological roles in the fragile ecosystems. They control the population of harmful rodents and pests, thus helping people. Though sometimes dangerous, snakes can be useful ... and, as with any species, they have the right to exist.

#### Did you know?

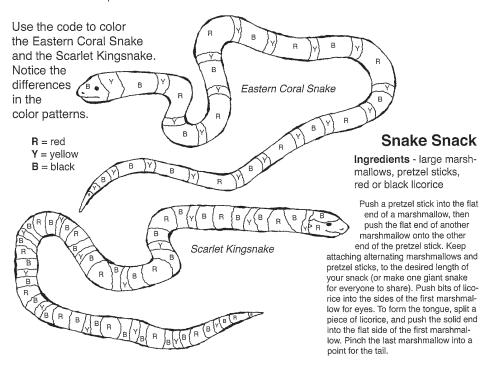
There are 36 species (different kinds) of snakes in the ACE Basin.
Six of these species are venomous.

#### **Coral Snake or Kingsnake?**

The *Eastern Coral Snake* is one of the poisonous snakes that is found in the ACE Basin. Its mouth and fangs are small, but their poison is deadly and can cause many problems for humans if they are bitten. The Eastern Coral Snake is not very aggressive. In fact, it is a very shy snake and the majority of the bite cases are ones in which humans are trying to handle the snake. The head of the coral snake is black and the body is encircled by black rings with yellow margins that alternate with red bands.

The *Scarlet Kingsnake* is a non-poisonous snake that is found in the ACE Basin. This snakes tries to trick people and other animals by having colors that are similar to the coral snake. However, you can tell the difference. Scarlet Kingsnakes are different in that they have red snouts and the yellow and red bands are separated by black.

The saying,"red on yellow, kill a fellow; red on black, friend of jack" was coined to remember which species is venomous.





### **Estuarine Habitats**

Find these inhabitants of the estuarine habitat in the word search puzzle.

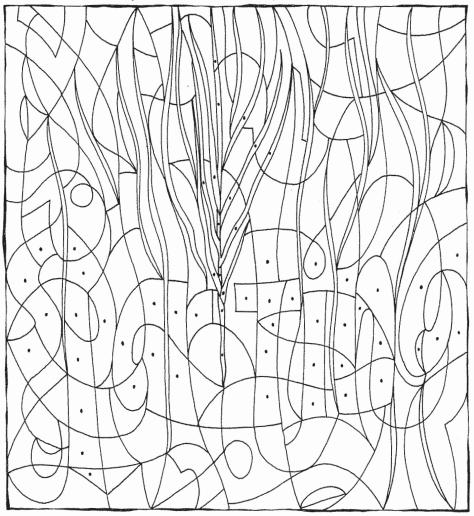
**ALLIGATOR** BASS **BOBCAT BLUE CRAB CATFISH** CLAM **CORDGRASS CRAB DEER** DOLPHIN DOVE **EAGLE EGRET FFRN** FIDDLER CRAB **FLOUNDER** FOX MOSQUITO MULLET **OYSTER PELICAN** PINE POISON IVY **RABBIT** RACCOON **RATTLESNAKE RED DRUM** SEA OATS SHARK SHRIMP **SPARTINA SQUIRREL** 

STARFISH TERRAPIN XYCASBLUECRABS OLPHINATXONAP KANM05QU MOOLSHARKMSR YRKMMGRABB THAACOAPKN' INFK50 AG EG XOYSTERKHCRAB

## **Coastal Plants & Animals**

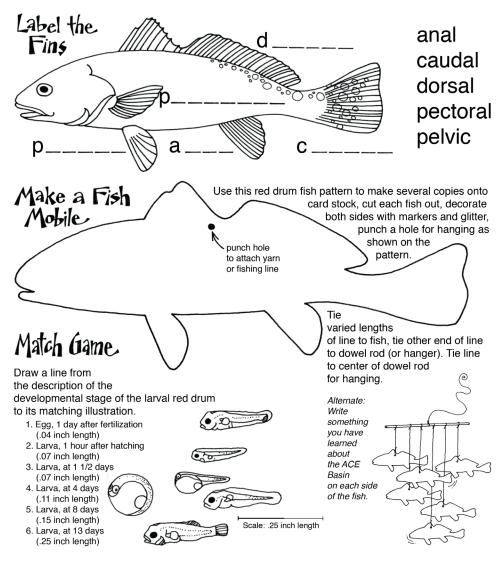
This is the most abundant and ecologically important plant in the ACE Basin's salt marshes. It provides the bulk of detritus to the marsh community, providing a major link in the food web. Many animals call this plant home.

To find the name of this plant and what it looks like, color all the sections with a dot.

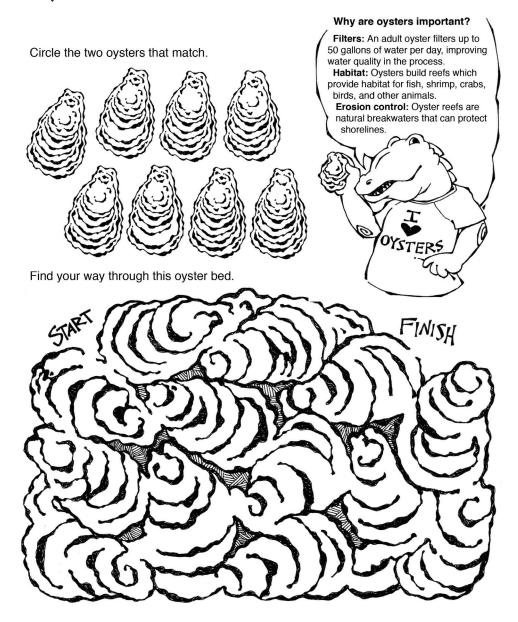


## **Red Drum**

The ACE Basin is home to a wide diversity of fish habitats from the high salinity of St. Helena Sound to the freshwater rivers and streams that feed it. The red drum (spottail bass) is a saltwater fish that thrives in St. Helena Sound.



# **Oysters**



# Jobs of the Salt Marsh

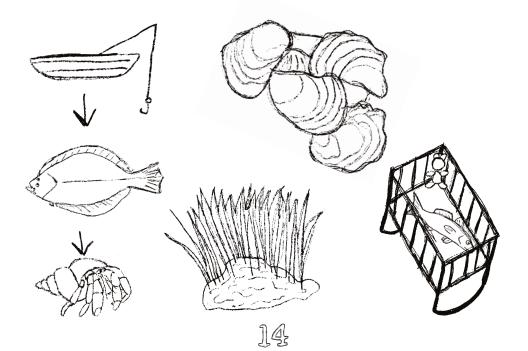
The salt marsh provides many benefits to humans and the rest of the ecosystem. Why is the salt marsh habitat important?

The salt marsh is one of the most biodiverse habitats in the world! This means it has a vast variety of life present within this one ecosystem. Protecting the salt marsh is very important because of this and other reasons listed below.

Draw an arrow from the images below that represent important functions of the salt marsh to the correct description and pictures.

Pluff mud absorbs excess water to help prevent flooding and erosion. Oysters filter pollutants out of the water, provide shelter for juvenile animals, and recycled oysters are reused to build oyster reefs! The marsh is a nursery for many juvenile species by providing protection and food until they are big enough to travel to the ocean.

The marsh is a huge food source for humans and animals!



### FISH FRIENDLY FUN

Practicing these fish friendly activities will help your fish survive after being caught and released.

- 1) Keep fishing in the water as long as possible
- 2) Wet your hands when touching fish
- 3) Use circle hooks and rubber-coated nets

#### SLIME IS COOL!

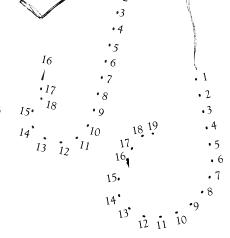
How can we help keep fish strong and healthy when we catch them? Fish have a protective layer of slime called a slime coat. This helps prevent a fish from becoming sick. By wetting your hands and using rubber-coated nets, you help them keep their slime shield!



#### HOOKED ON CONSERVATION

Picking the right hook for your fishing line is important. Did you know that the circle hook prevents hooking a fish's stomach and helps them have a better chance of surviving?

Connect the dots to draw the types of hooks used in fishing!



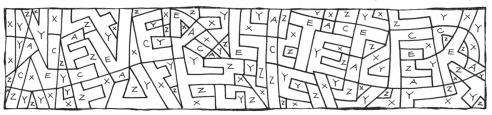
# **Come Prepared**



# Respect the Environment

It is important that we all play a part in preserving our environment.

Color in all the areas with an A, C, or E to read a reminder for what you can do to help.



List some things you can do every day to respect the environment in which you live.

