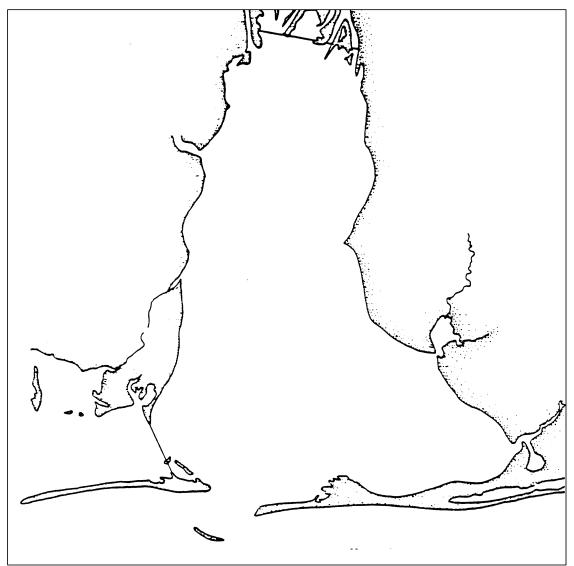
<u>To be done before your visit to the Alabama Aquarium</u>

9 th -	- 12 th	Grade	Activity
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MAP OF MOBILE BAY



Using the map of Mobile Bay above, label the following areas around Mobile Bay:

South

East

West

North Mobile

Dauphin Island Mobile Bay

Gulf of Mexico Dog River

Bon Secour Bay

Ship Channel

Mississippi Sound Middle Bay Lighthouse

Fowl River

Fort Morgan Peninsula

Draw a circle around the Mobile-Tensaw Delta area.

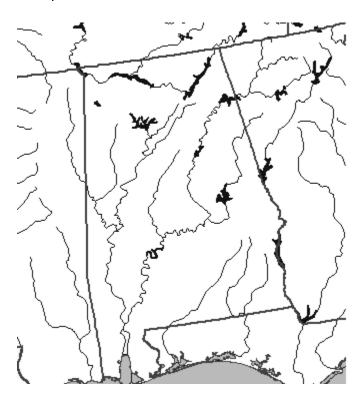
To be done before your visit to the Alabama Aquartum

MOBILE BAY WATERSHED

A watershed is an area of land that drains to a particular body of water. Watersheds are complex systems of rivers, lakes, streams, groundwater, and wetlands that eventually drain into the same body of water.

Using the map provided (www.nationalatlas.gov), begin at Mobile Bay, and trace the rivers and streams that are connected to the bay. Draw a line to encompass these rivers and streams, being careful not to cross rivers that don't connect to the bay. This will outline the watershed of Mobile Bay. Shade the area.

Do you live in the Mobile Bay watershed?



Water from more than two-thirds of the state of Alabama, and parts of Mississippi, Tennessee, and Georgia eventually flows into Mobile Bay, which drains into the Gulf of Mexico. Upstream activities in a watershed can impact downstream water quality. If your town is within the large Mobile Bay watershed, your activities that affect a creek in your neighborhood or a river in your town can affect the Mobile Bay estuary and the Gulf of Mexico many miles away.

To be done at the Alabama Aquartum

9 th – 1	2 th Grade Activity	Name:
a place	labama Aquarium exhibits plants and animals of A e where freshwater from land mixes with saltwat the freshwater Mobile-Tensaw River Delta to the	er from the ocean. Your visit will take you
	orksheet is organized by the galleries you will find while g the panels, observing the tanks, and talking with docent	
	Entrance	<u>e</u>
1.	Describe how our continent looked different Cretaceous Period, when mosasaurs lived on	,
	Mobile-Tensaw R	iver Delta
1.	How big is the Mobile-Tensaw Delta (measur	red in acres)?
2.	Name two photosynthetic, carnivorous organ	nisms in this gallery
	They can be found	in what ecosystem?
	What are two threats to this ecosystem? _	
3.	What are invasive species?	

To be done at the Alabama Aquartum

Mobile Bay Estuary

	15,000 years ago?
,	Why was it different?
-	What bivalve animal provides important habitat for many others?
	How do these animals feed?
	Explain a problem caused by hard, man-made structures, such as bulkheads.
	What might be a better solution?

To be done at the Alabama Aquartum

	Dauphin Island Name two important banefits of bannian islands to mainland coastal areas
•	Name two important benefits of barrier islands to mainland coastal areas.
2.	Below is a cross section of a barrier island. Label the following habitats: beach dune maritime forest salt marsh
-	
an	each habitat, label one plant or one animal found there. Explain why the sand dunes be a harsh environment for plants and animals. Give at least three examples. Explain east three adaptations that allow some plants and animals to survive these challenges

Name four ty	pes of structures that have been sunk off the Alabama coast to
create artific	cial reefs
Why have peo	ople created these artificial reefs?
Exploration:	What value is there to exploring the oceans?

	Island station.	ecord current weather conditions at the Dauphin
	Air Temperature	Wind Speed
	Water Temperature	Wind Direction
	Dissolved Oxygen mg/L	Salinity
	* Don't forget to include units o	f measure.
	with increased depth through the written on a sign; you will have the	oxygen usually increase, decrease, or stay the same he water column? Hint: you will not find the answer to think about it
Air-\	water interface:	
Tem	perature:	
 Phot	osynthesis:	

Living Marsh Boardwalk

The Living Marsh Boardwalk is located outside the Aquarium. This area was once the site of a septic tank used by the Air Force. In 1993, the Dauphin Island Sea Lab removed the sewage-septic tank and rebuilt the marsh. Use the panels and audio kiosks on the boardwalk and your own observations to answer the following questions.

On average, how deep	is Mobile Bay?	How long is
Mobile Bay?	How wide is Mobile	Bay?
How real is the threat	of an oil spill from the rigs you see	just offshore?
Compare the form and	function of the existing Aquarium p	oarking lot to a
	aved parking lot in the same place	

Invertebrate Trail
On the Invertebrate Trail, locate animals that represent the phylum Arthropoda (which means "jointed legs"). Use a crayon (or pencil) to make a rubbing of one of these animals.