

### Florida Objectives – Elementary

**GulfQuest Theater:** This three-screen, multi-media theater presentation, entitled "The Gulf Coast: A Place Like No Other", explores the rich maritime history and culture of the Gulf of Mexico and Mobile Bay from past to present. A tapestry of panoramic images and voices captures what it's like to live and work on the Gulf Coast. Local voices narrate the 16-minute film, which takes GulfQuest visitors from location to location while they explore different aspects of the region, including recent events (Hurricane Katrina and the BP Horizon oil spill).

Social Studies:

Grade 1: G.1.6

**Propeller Challenge:** Propellers are used to move large ships, but why are their capabilities limited? Visitors will crank a propeller in water and determine how fast they can go. Then they'll see how increasing the speed of the propeller requires an exponential amount of energy.

Math:

Grade 3: OA.1.1

Grade 4: OA.1.1

Grade 5: OA.1.1

**Cross Staff and Quadrant and The Sextant:** Early sailors used tools such as the cross staff, the quadrant, and the sextant to determine their ship's latitude. Visitors will use these same tools to measure the angle between Polaris and the horizon, and determine their position north or south of the equator.

Social Studies:

Grade 5: G.1.2

Math:

Grade 1: MD.2.3

Grade 3: OA.3.7

Grade 4: MD.3.5

**Longitude Challenge:** Until the 1770s, mariners were unable to determine longitude because no timepiece could keep accurate time at sea. What if you were "lost at sea"? Through this exercise, visitors will discover how they can use time to tell your longitude on the open water.

Social Studies:

Grade 5: G.1.2

Math:

Grade 1: MD.2.3

Grade 3: OA.3.7

Grade 4: MD.3.5

## Exhibit Connections



**Ocean Planet Theater:** A six-foot diameter planet Earth is suspended, rotating on its axis. With stunning visualizations of our amazing "ocean planet", visitors will engage in theater programs on the Gulf of Mexico that utilize real satellite data and other images.

**Science:**

Grade K: E.5.2, E.5.3  
Grade 1: E.5.1  
Grade 2: E.7.1, E.7.2  
Grade 3: E.5.2  
Grade 5: E.5.2, E.5.3

**Social Studies:**

Grade K: G.1.2, G.1.4, G.3.1, G.3.2  
Grade 1: G.1.4, G.1.5  
Grade 2: G.1.1  
Grade 3: G.1.2

**Beneath the Bay:** Visitors will view over 100 shipwrecks located in Mobile Bay, originating from every period of North American history, from Spanish colonization to modern times. Visitors will explore the locations of the more storied shipwrecks from the area's maritime history.

**Social Studies:**

Grade K: G.1.4  
Grade 2: G.1.1

**What's Inside?:** In every port, goods headed to market are shipped inside huge stacks of containers. Visitors will explore an interactive, multi-media environment that demonstrates how containers are used to transport products worldwide.

**Math:**

Grade K: MD.1.1

**Comings and Goings:** This two-story, interactive world map allows visitors to explore historic and current waterborne commerce to and from the Gulf, from the routes of early Spanish, French and British explorers, to modern trade that links Mobile and the Gulf to the world.

**Social Studies:**

Grade K: G.1.4, G.3.1, G.3.2  
Grade 2: G.1.3  
Grade 4: A.3.1

**The Hunley:** Visitors will sail onboard the Civil War submarine *H. L. Hunley* on the fateful night it became the first sub to destroy an enemy vessel: the Yankee warship *Housatonic*. Experience this historic event through the eyes of Lt. George Dixon, the Hunley's captain.

**Social Studies:**

Grade K: A.2.4  
Grade 1: A.2.1, A.2.4

## Exhibit Connections



**MariTimeline:** The comprehensive maritime history of the Gulf of Mexico and Mobile is displayed in a user-friendly format designed for the casual viewer as well as the history buff. On parallel timelines, visitors will explore early discoveries, inventions, economic events, political upheavals, and social milestones that defined Gulf Coast maritime history. Reproduced engravings, paintings and photographs illuminate fascinating facts from the Gulf's storied past.

**Social Studies:**

Grade K: A.1.1  
Grade 2: A.2.1, A.3.1  
Grade 4: A.3.3, A.3.7  
Grade 5: A.1.2

**El Cazador:** Step into a glass-bottom boat and witness the amazing shipwreck of El Cazador, a Spanish galleon that could have changed history had it completed its mission in 1784 to deliver new currency to Spain's struggling Louisiana colony.

**Social Studies:**

Grade K: A.2.4  
Grade 1: A.2.1, A.2.4  
Grade 5: A.6.1

**Extreme Storms:** Inside, visitors will encounter a calm beach day that becomes a hurricane, and will be called upon to become "emergency response managers", making decisions based on rapidly-incoming information. Visitors will make choices that affect loss of property and life.

**Science:**

Grade 2: E.7.5

**Social Studies:**

Grade K: G.3.3

**Math:**

Grade 1: NBT.1.1, NBT.3.4

**Cargo Handler:** Visitors will use block and tackle like stevedores to hoist heavy goods (36 pounds of weight). See how the right combination of pulleys can make the job easier.

**Math:**

Grade 3: OA.1.2, OA.2.5  
Grade 4: OA.1.2

**Ocean Today:** At this media kiosk, visitors can view selections from the latest video feeds issued by NOAA (National Oceanic and Atmospheric Administration) relative to maritime research and events that are affecting our ocean environment.

**Science:**

Grade 2: E.7.1, E.7.2, E.7.5  
Grade 4: E.6.3, L.17.4

**Social Studies:**

Grade K: G.3.3

## Exhibit Connections



**Hidden Highways:** See how you can ship goods on the nation's river system, from a variety of Gulf ports to destinations far north. Watch the route your goods would take on the inland waterways as well as the number of miles traveled and the change in elevation as you go.

Math:

Grade K: MD.1.2

Grade 2: NBT.1.1

### Florida Objectives – Middle School

**Ocean Planet Theater:** A six-foot diameter planet Earth is suspended, rotating on its axis. With stunning visualizations of our amazing "ocean planet", visitors will engage in theater programs on the Gulf of Mexico that utilize real satellite data and other images.

Science:

Grade 6: E.6.2, E.7.3, E.7.7

Grade 8: E.5.7, E.5.9, E.5.10

Social Studies:

Grade 6: G.1.1, G.1.6, G.2.1

**Beneath the Bay:** Visitors will view over 100 shipwrecks located in Mobile Bay, originating from every period of North American history, from Spanish colonization to modern times. Visitors will explore the locations of the more storied shipwrecks from the area's maritime history.

Social Studies:

Grade 6: G.1.2

**Comings and Goings:** This two-story, interactive world map allows visitors to explore historic and current waterborne commerce to and from the Gulf, from the routes of early Spanish, French and British explorers, to modern trade that links Mobile and the Gulf to the world.

Social Studies:

Grade 6: G.1.6, G.2.1

**MariTimeline:** The comprehensive maritime history of the Gulf of Mexico and Mobile is displayed in a user-friendly format designed for the casual viewer as well as the history buff. On parallel timelines, visitors will explore early discoveries, inventions, economic events, political upheavals, and social milestones that defined Gulf Coast maritime history. Reproduced engravings, paintings and photographs illuminate fascinating facts from the Gulf's storied past.

Social Studies:

Grade 6: W.1.1, G.6.2

Grade 8: A.1.2, G.1.1

**The Hunley:** Visitors will sail onboard the Civil War submarine *H. L. Hunley* on the fateful night it became the first sub to destroy an enemy vessel: the Yankee warship *Housatonic*. Experience this historic event through the eyes of Lt. George Dixon, the Hunley's captain.

Social Studies:

Grade 8: A.1.7, A.5.6

## Exhibit Connections



**El Cazador:** Step into a glass-bottom boat and witness the amazing shipwreck of El Cazador, a Spanish galleon that could have changed history had it completed its mission in 1784 to deliver new currency to Spain's struggling Louisiana colony.

**Social Studies:**

Grade 8: A.1.7, A.4.1

**Extreme Storms:** Inside, visitors will encounter a calm beach day that becomes a hurricane, and will be called upon to become "emergency response managers", making decisions based on rapidly-incoming information. Visitors will make choices that affect loss of property and life.

**Science:**

Grade 6: E.7.7, E.7.8

**Ocean Today:** At this media kiosk, visitors can view selections from the latest video feeds issued by NOAA (National Oceanic and Atmospheric Administration) relative to maritime research and events that are affecting our ocean environment.

**Science:**

Grade 6: E.7.8

Grade 7: E.6.6

**Social Studies:**

Grade 8: G.5.1

## Exhibit Connections



### Florida Objectives – High School

**Ocean Planet Theater:** A six-foot diameter planet Earth is suspended, rotating on its axis. With stunning visualizations of our amazing "ocean planet", visitors will engage in theater programs on the Gulf of Mexico that utilize real satellite data and other images.

Science:

Grade 9-12: E.6.2, E.6.5, E.7.2

Social Science:

Grade 9-12: G.2.1

**Comings and Goings:** This two-story, interactive world map allows visitors to explore historic and current waterborne commerce to and from the Gulf, from the routes of early Spanish, French and British explorers, to modern trade that links Mobile and the Gulf to the world.

Social Science:

Grade 9-12: W.4.11, W.4.12

**Ocean Today:** At this media kiosk, visitors can view selections from the latest video feeds issued by NOAA (National Oceanic and Atmospheric Administration) relative to maritime research and events that are affecting our ocean environment.

Science:

Grade 9-12: L.17.8, L.17.11

Social Science:

Grade 9-12: G.3.2, G.5.2, G.5.3

Grade E.6.5, E.6.6, E.7.6

**Extreme Storms:** Inside, visitors will encounter a calm beach day that becomes a hurricane, and will be called upon to become "emergency response managers", making decisions based on rapidly-incoming information. Visitors will make choices that affect loss of property and life.

Science:

Grade 9-12: E.7.6