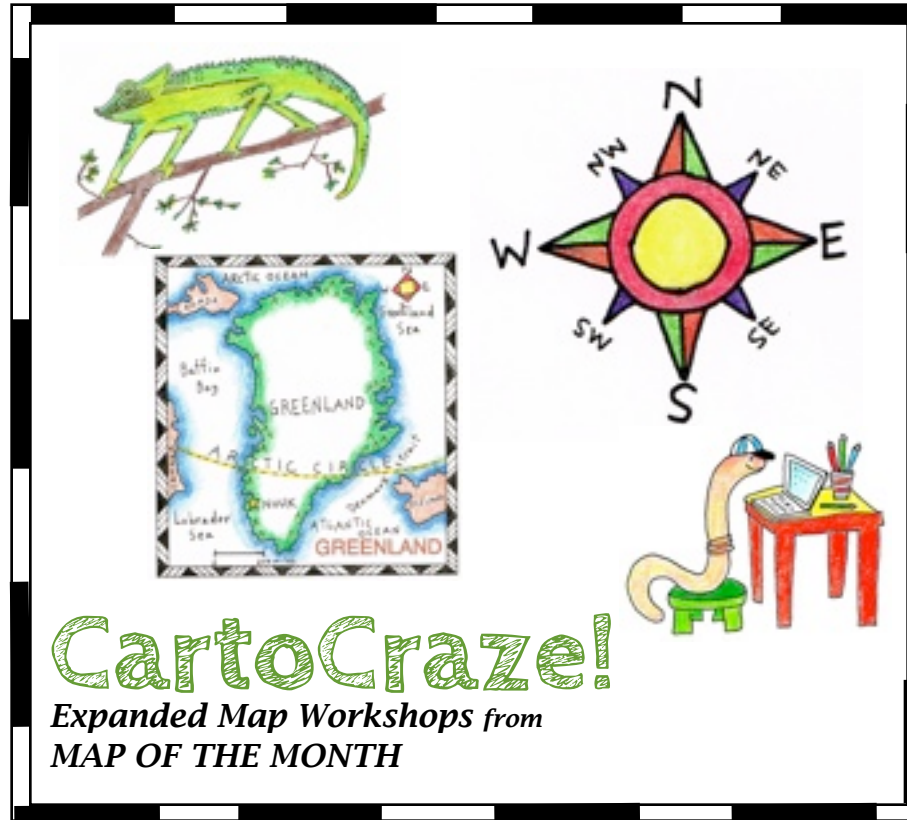


BERMUDA



CartoCraze!

*Expanded Map Workshops from
MAP OF THE MONTH*

CartoCraze!

Expanded Map Workshops

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ISLANDS

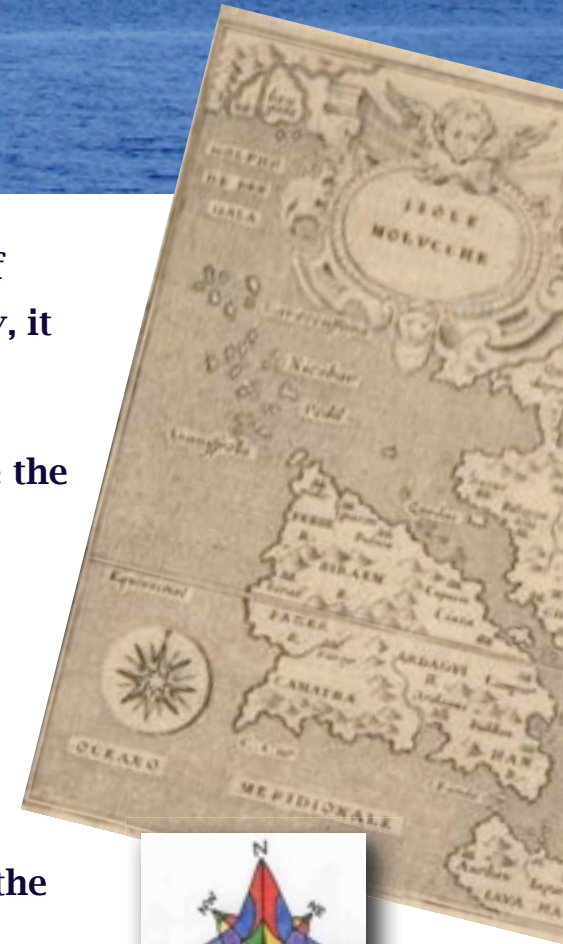


An island is a piece of land surrounded by water. An island can be as tiny as a spot of land at the center of a freshwater lake, only large enough for a few plants. Alternately, it can be very large, like Greenland, surrounded by salt water ocean.

The actual foundation of an island is below water. Many islands in the deep ocean are the tips of volcanoes. Other islands emerge from the Continental Shelf.

The topography of an island is influenced by its position on Earth. Its temperature, climate, flora and fauna and its size are determined by its location. Some islands are uninhabited, others are home to millions of people. An island can be isolated and far away from other pieces of land, or it can be part of a group of islands.

Throughout history, islands have captured the imaginations of humans. Explorers in the early history of the civilized world risked their lives to visit islands that were yet unknown. People choose islands as a destination, to relax in areas that have easy access to water. People love movies about islands! Robert Louis Stevenson's book TREASURE ISLAND, published in 1883, is still popular today with readers around the world. There is something very fascinating about a piece of land that has a continuous coastline.....



ISLAND TERMS AND THEIR DEFINITIONS!

It is impossible to talk about islands, or learn about them, without knowing some terms that relate to islands. Here are just a few terms! Can you come up with other terms?



DESERT ISLAND An island not inhabited by humans.

ATOLL A coral reef shaped like a circle or ring and is filled with water. This is usually the tip of an extinct volcano.

COASTLINE The land along the outer edge of an island, where the land meets the water.

ARCHIPELAGO A chain or group of islands

BARRIER ISLAND An island formed of dunes, made of flat or lumpy areas of sand parallel to a coastline.

PENINSULA A piece of land that is surrounded by water on three sides but connected to mainland.

GULF A large bay that is connected to the ocean or larger body of water.

BAY A large indentation on a coastline that is connected to an ocean or lake

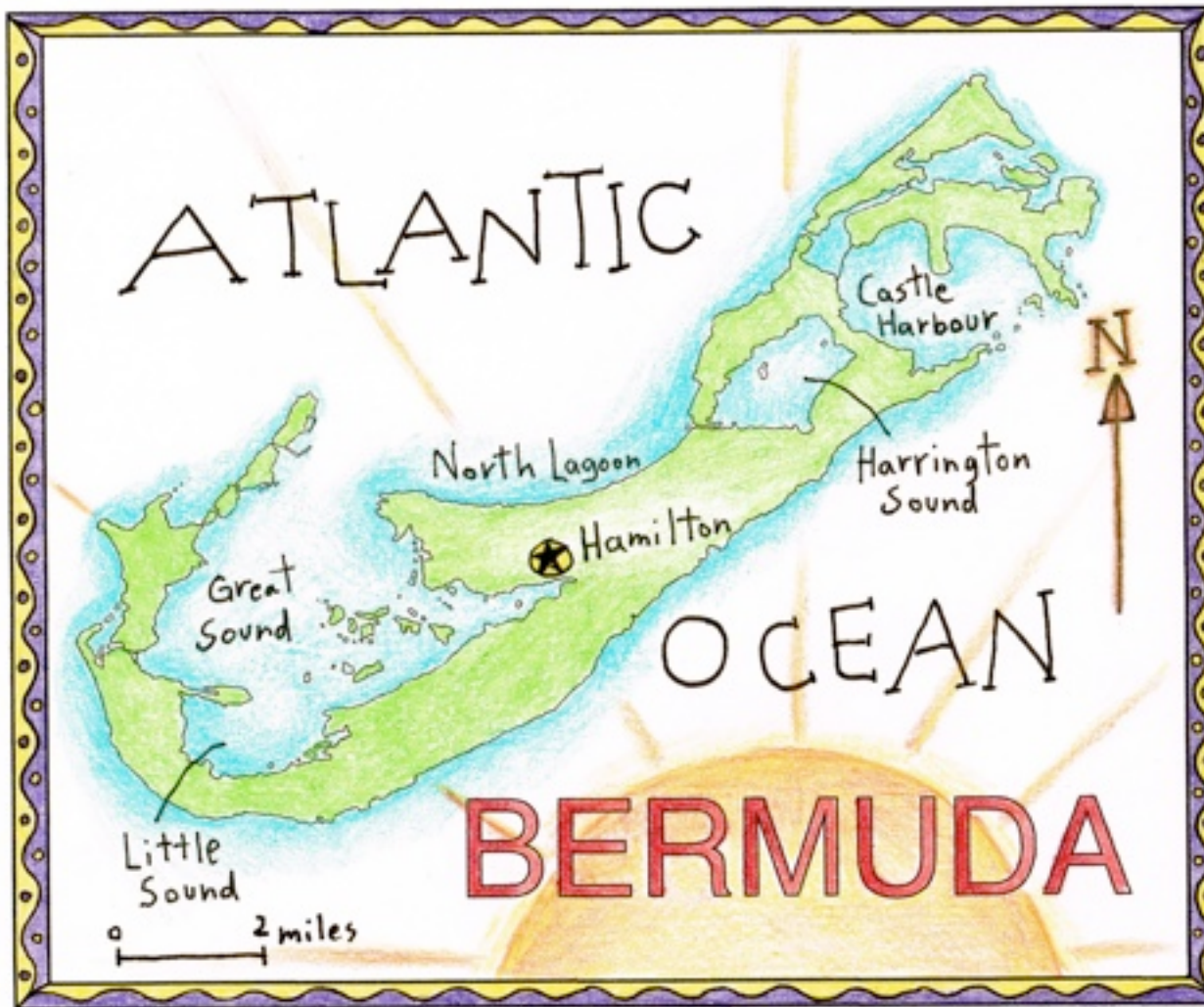
LAGOON A shallow body of water separated from a larger body of water by coral reefs or barrier islands.

BEACH Land along the coast of an ocean, sea, lake, or river consisting of loose particles made of sand or rock.



The following presentation is an introduction to the island of BERMUDA, with guidelines about making a map, as well as some information about its geography, people and animals.

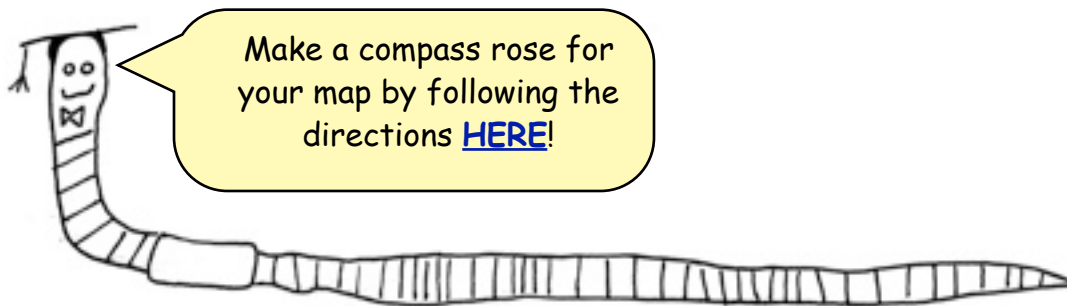
BERMUDA



The **Islands of Bermuda** is the official name of this British Territory that is in the Atlantic Ocean, and considered part of the continent of **NORTH AMERICA**. Bermuda is off the coast of the United States, about 640 miles away from Cape Hatteras in North Carolina.

The land area of Bermuda is very small -- only about 20 square miles total! If you study the **SCALE** on the map at the left, you can see how narrow the parts of the main island are -- and how tiny the little islands are! Still, this is a popular destination for tourists since it is a beautiful place to sun, swim and enjoy nautical adventures.

Bermuda is in what is called the "Hurricane Belt" so it is prone to these heavy storms in the mid-Atlantic! However, unlike some islands that we are studying, these are very low-lying and that helps them from getting hit as hard as islands that have more elevation!



I am Professor Earthworm

COMPARE AND CONTRAST!

The map at left is an old map made in 1692 by a famous cartographer named Vincenzo Coronelli. He worked from his map making studio in the city of Venice, in Italy.

At the time, the exact boundaries of places had not been fully explored. Today we would not find Coronelli's maps accurate but they give us a picture of the knowledge people had at the time.



Vincenzo Coronelli,
cartographer
Born in 1650,
died in 1718

The photo of Bermuda at right
was taken from space,
by satellite.

It is not a map but it looks like one!
It is interesting to see the various
colors of water and land.

Can you guess what the white/gray
spots are?



SPOTTED EAGLE RAY

The Spotted Eagle Ray is a member of the ray family and is identified by its distinctive white spots and unique duck-like snout.

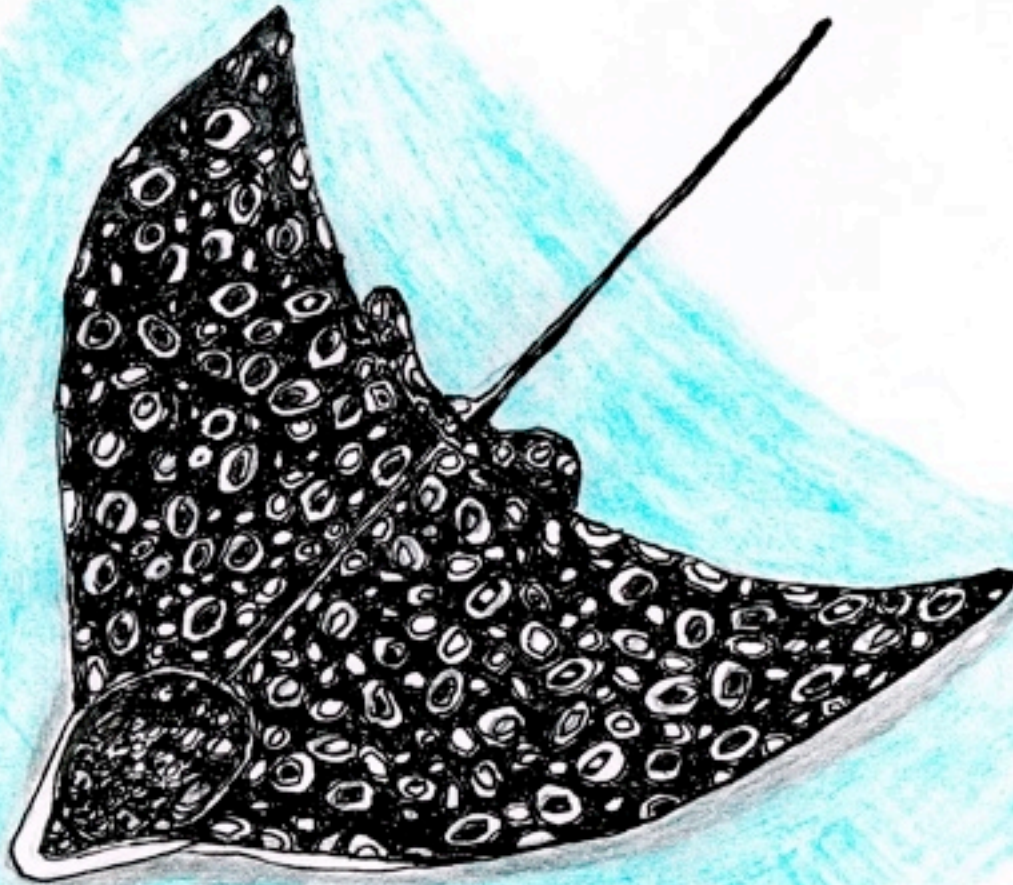
The Eagle Ray is found in tropical waters including those around the island of Bermuda.

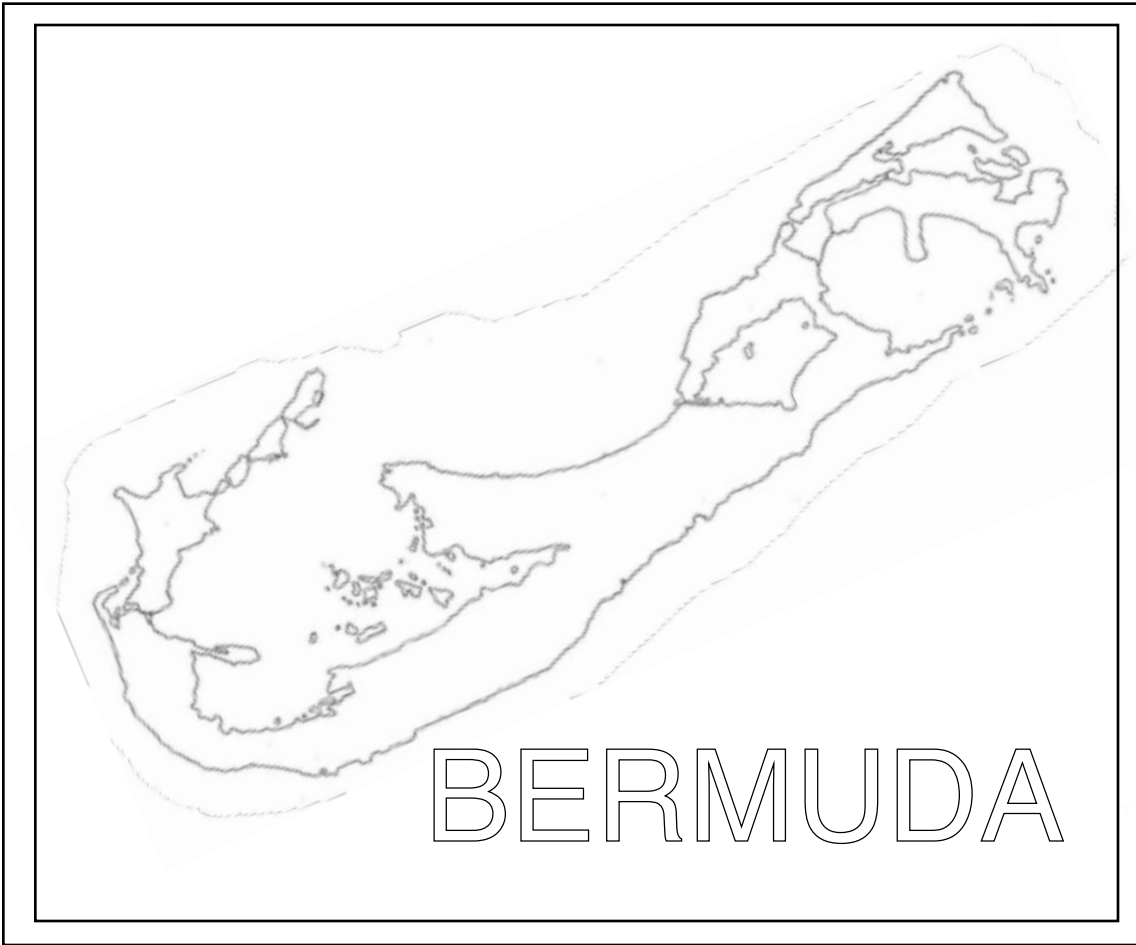
The tail can be up to 20 feet long, with venomous spines! This tail can be used as a weapon against predators.

One thing that makes this sea creature unique is that it can leap out of the water. There have been occasions where the Spotted Eagle Ray has accidentally landed on a boat!



This ray's long tail can be 20 feet!





SPELLING WORDS

pattern
spine
temperate
shy
reef
wingtip
grazers
estuary
barb
shallow
school
bottom
snout
depth

VOCABULARY WORDS

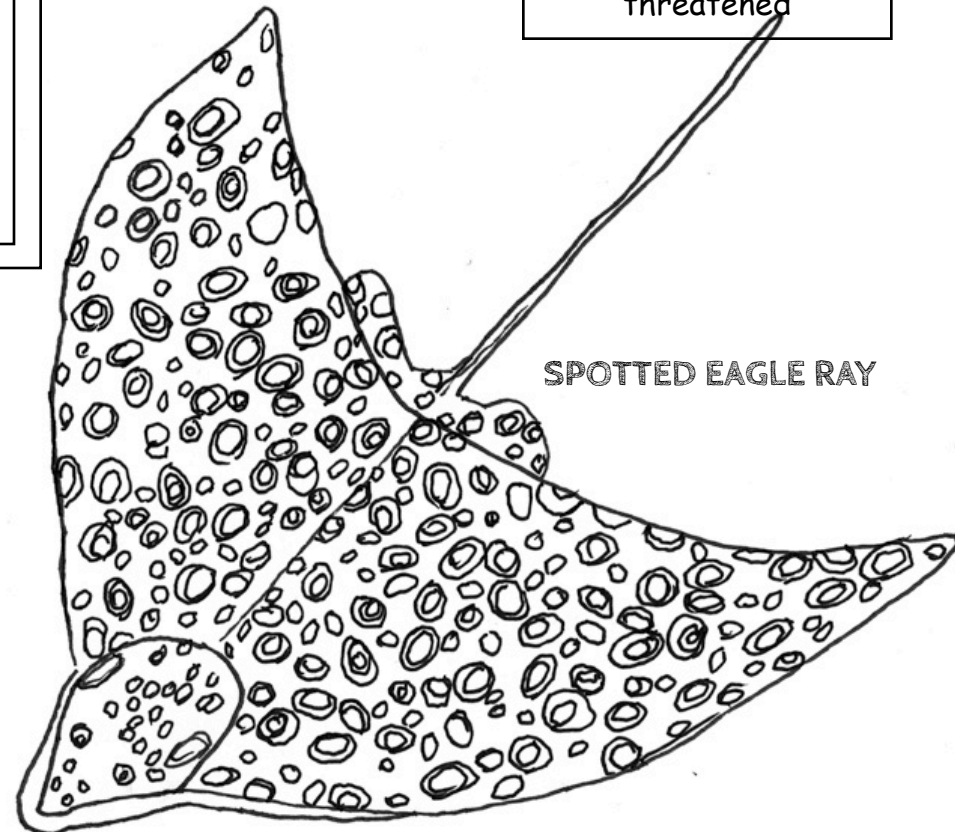
Turn your map over and define these words!

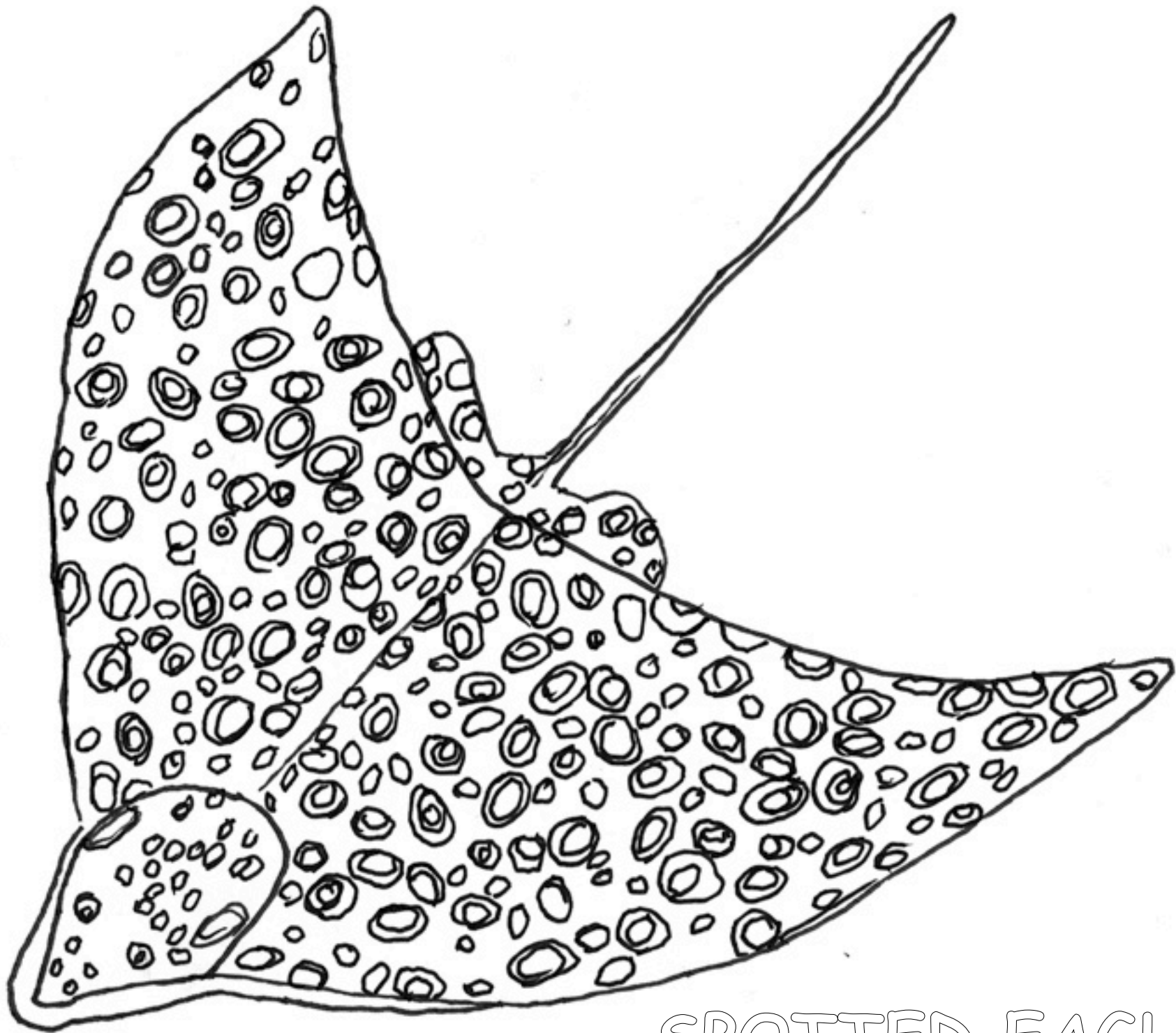
cartilaginous
flattened
dorsal
tropical
venomous
underbelly
global
coast
stinger
aggregation
distinctive
crustacean
threatened

BERMUDA

PRINT THIS PAGE:
COLOR AND LABEL THE MAP, BOTH
LANDFORMS AND WATER.

ADD A COMPASS ROSE
TO YOUR MAP!
COLOR the
SPOTTED EAGLE RAY





SPOTTED EAGLE RAY

COMPARE AND CONTRAST!



Why is the word HARBOUR also spelled HARBOR?

Defining what a harbour is, write a small essay that describes how it might be different today than at the time the engraving was made. And how is a harbour different than a bay?

Describe how the landscape is different and how shipping vessels might vary! Do a little research about the nature of this body of water, and what its uses were and are!

If you were living near this harbour in the past as well as today, what can you picture yourself doing on a sunny day with pleasant weather?

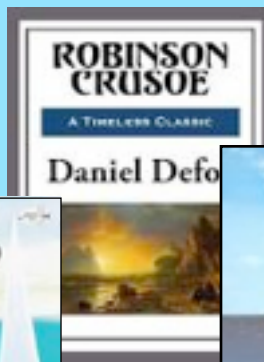
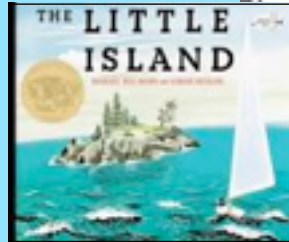
There is a famous harbor in Bermuda called St. George's Harbour. The upper image is an engraving of it from 1854. Compare this image to a modern day photo below!



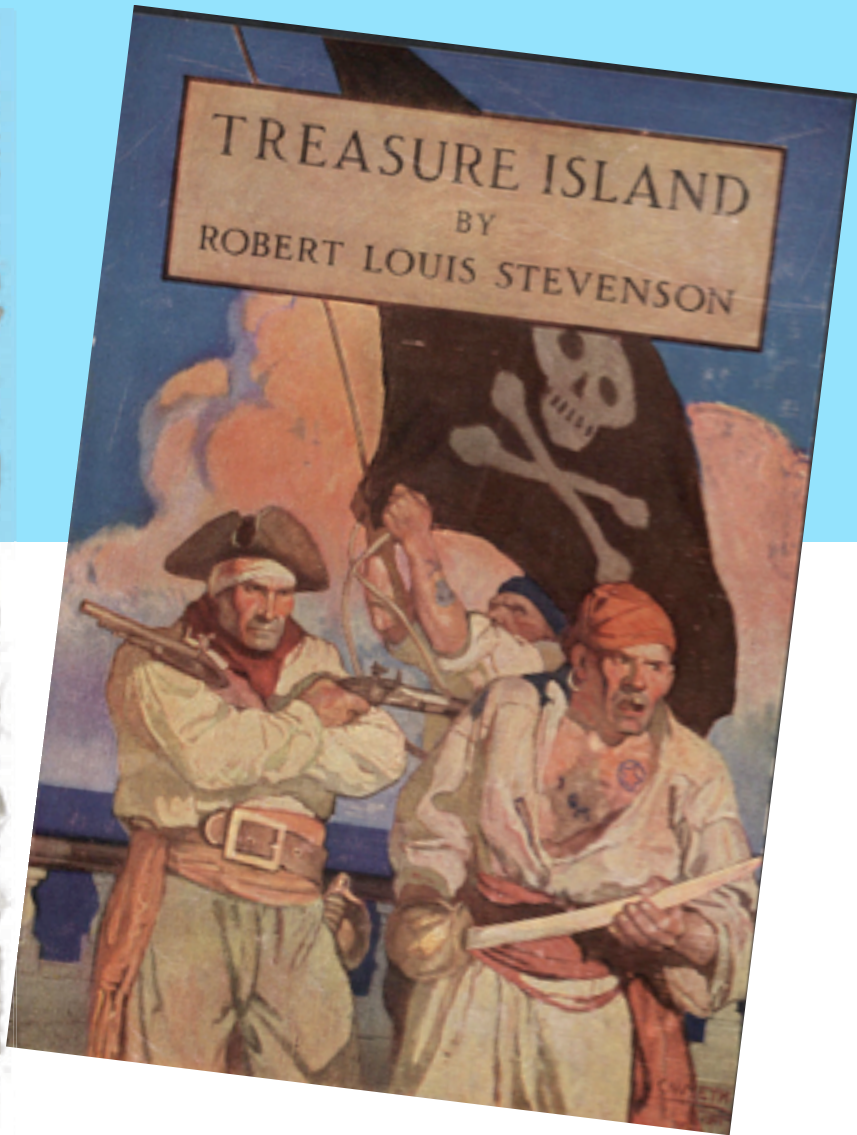
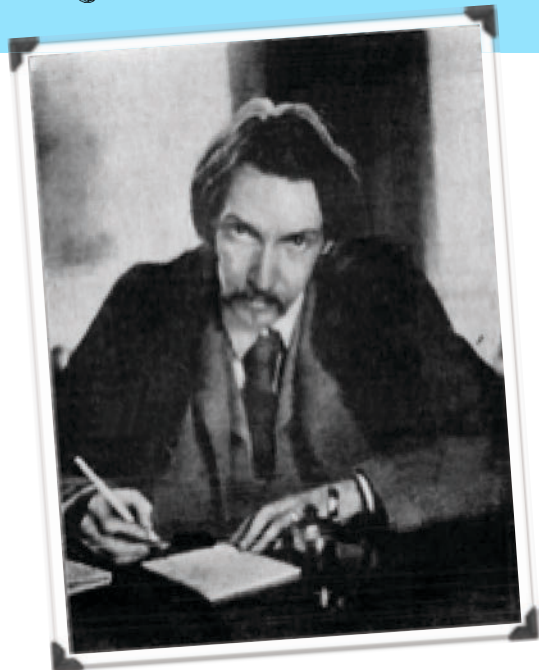
ISLAND READING LIST!

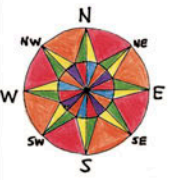
TREASURE ISLAND Robert Louis Stevenson
ISLAND OF THE BLUE DOLPHINS Scott O'Dell
THE MYSTERIOUS ISLAND Jules Verne
THE LITTLE ISLAND Golden MacDonald
ISLAND BOY Barbara Cooney
ROBINSON CRUSOE Daniel Defoe

The Mysterious Island
Jules Verne



In 1883, Robert Lewis Stevenson's exciting book TREASURE ISLAND was published. Adventure! Pirates! Treasure and.... the dreaded BLACK SPOT! Stevenson drew his own fictional island map when he was writing his book to help him envision the action of his novel. You can see his map at right!





NORTH AMERICA

Map of the Month

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Visit us at www.mapofthemonth.com

USA FEATURES

Label states and outline the regions. Each state name has an abbreviation that you can use.
You may want to label other details, such as state capitals, major cities, large lakes, etc.

Northeastern states

CT Connecticut
DE Delaware
ME Maine
MD Maryland
MA Massachusetts
NH New Hampshire
NJ New Jersey
NY New York
PA Pennsylvania
RI Rhode Island
VT Vermont
(DC District of Columbia)

Southeastern states

AL Alabama
FL Florida
GA Georgia
KY Kentucky
NC North Carolina
SC South Carolina
TN Tennessee
VA Virginia
WV West Virginia

South Central states

AR Arkansas
LA Louisiana
MS Mississippi
OK Oklahoma
TX Texas

Midwestern states

KS Kansas
MN Minnesota
IA Iowa
MO Missouri
IL Illinois
WI Wisconsin
MI Michigan
OH Ohio
IN Indiana
ND North Dakota
SD South Dakota
NE Nebraska

Northwestern states

AK Alaska
ID Idaho
MT Montana
OR Oregon
WA Washington
WY Wyoming

Southwestern states

AZ Arizona
CA California
CO Colorado
NV Nevada
NM New Mexico
UT Utah

Pacific state

Draw an arrow in the direction of this state
HI Hawaii

North America is the third largest continent in terms of land area. It is located in the northern and western hemispheres. The Atlantic Ocean lies to the east, and the Pacific Ocean to the west. To the north is the Arctic Ocean. The Caribbean Sea is to the southeast.

North America has three large countries: Canada, the United States and Mexico. In addition, the area known as Central America is made up of seven smaller countries. There are many small islands in the Caribbean; some are independent countries, others are territories of the US or European countries. The largest island in the world, Greenland, is a territory of the Scandinavian country of Denmark. Most geographers agree that the most southern point of the North American continent occurs at the isthmus of Panama.

Within this continent, the climate varies from the northern arctic regions to the deserts of the American Southwest to the tropical areas of the American Southeast and the Caribbean.

There are many notable geographic features in North America. Many mountain ranges extend along the western areas from Alaska to Panama. In the east, the land tends to be lower in elevation. Here the most significant ranges are part of the Appalachian Mountains. There are also highlands in Labrador and the Baffin Islands. There are many large lakes and rivers in North America. The most obvious on the map are the Great Lakes, which are clustered around the northern border of the United States.

ACTIVITIES

Label the physical and political features of North America.
Color the countries, states and provinces with different colors.
Color the bodies of water, including the oceans, a light blue.

COUNTRIES and TERRITORIES

CANADA
USA
MEXICO
BELIZE
GUATEMALA
EL SALVADOR
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
BAHAMAS
CUBA
JAMAICA
HAITI
DOMINICAN REPUBLIC
PUERTO RICO
GREENLAND

The following islands are so small it may not be easy to label them!

Try your best!
VIRGIN ISLANDS
ANTIGUA AND BARBUDA
GUADALUPE
MARTINIQUE
MONTSERRAT
DOMINICA
ST. LUCIA
BARBADOS
ST. VINCENT AND THE GRENADINES
GRENADA
TRINIDAD AND TOBAGO
ARUBA
NETHERLANDS ANTILLES
ST. KITTS AND NEVIS

BODIES OF WATER

Arctic Ocean
Atlantic Ocean
Pacific Ocean
Gulf of Mexico
Hudson Bay
Labrador Sea
Baffin Bay
Beaufort Sea
Gulf of Alaska
Caribbean Sea
Gulf of California

Lakes

Lake Huron
Lake Ontario
Lake Michigan
Lake Erie
Lake Superior
Great Bear Lake
Great Slave Lake
Lake Winnipeg

Rivers

Draw in and label these major rivers: many run along state boundaries.
Ohio River
Mississippi River
Missouri River
Yukon River

MOUNTAINS

Using the triangular symbol shown here, draw in and label these major ranges.
Rocky Mountains
Appalachian Mountains
Sierra Madre Oriental

CANADIAN PROVINCES

Label these provinces.
Prince Edward Island
New Brunswick
Newfoundland and Labrador
Quebec
Ontario
Manitoba
Nunavut
Northwest Territories
Ohio River
British Columbia
Alberta
Saskatchewan
Nova Scotia

MAP KEY

● Capital
• City
▲▲▲ Mountains
— River (blue)
☀ Desert



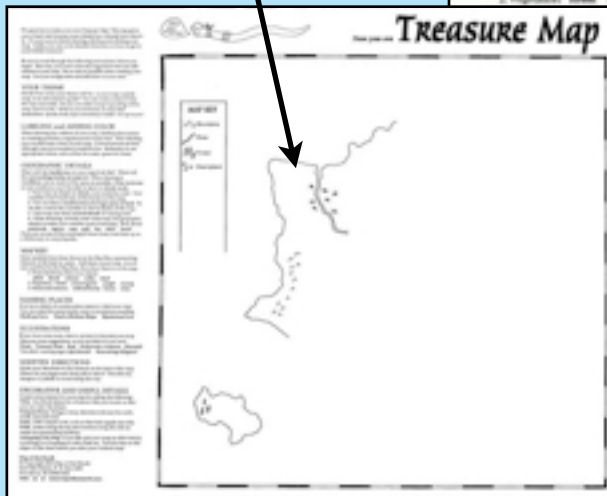
Every state has official symbols, such as a state bird or state tree. Research the symbols for your state and draw them here.



Make your own TREASURE MAP!



BLANK MAP!



Try it!

It's great fun to make your own Treasure Map! This map gives you a head start because some details have already been drawn in. It's up to you to finish drawing, labeling and coloring your map. Lastly, you can write detailed directions on how to get to your hidden treasure!

Be sure to read through the following instructions before you begin. This way, you won't miss any suggestions that can add interest to your map. Be as neat as possible when creating your map. Use your imagination and add those of your own!

YOUR THEME
Decide first what your theme will be: is your map a pirate map, or an adventurer's guide? You can create a story of why the map was made. Or you can make a map to go along with a story you've read. What is your treasure, or your final destination—growth, love, hope or mystery's land? It's up to your imagination!

LABELING and ADDING COLOR
When drawing the outlines of your map, labeling place names or creating symbols, a regular pencil works best. After labeling, you can add many colors to your map. Colored pencils are best, although crayons or markers would be fine. Remember to use appropriate colors, such as blue for water, green for forest.

GEOGRAPHIC DETAILS
What will the landscape on your map look like? What will the surrounding bodies of water be? When drawing in conditions, use as much of the space as possible. If the land area is very small you won't be able to draw in details easily.

1. Your map can depict an island, surrounded by water. Your coastline won't touch any of the borders of the map.
2. You can draw a small section of a larger piece of land. To do this, extend the coastline to the borders of the map.
3. Your map can show several islands of varying sizes.
4. When drawing, include some waterways and geographic details to make your coastline more interesting. How about peninsulas, bays, cays, gulf, bay delta, beach?

If you are unsure of the meaning of these terms, look them up in a dictionary or encyclopedia.

MAP KEY
Some symbols have been shown in the Map Key, representing features of the land or water. Add these to your map. Invent new symbols for the Map Key, then draw them in on the map.

1. Some landforms that occur around the globe: desert, volcano, valley, hill, mountain, forest, meadow, grassy plain, swamp, beach, bay, inlet, cove, river delta, lagoon, lake, pond, marsh, spit, cape, bay, spit, hills, channel, cliff, lagoon, coral reef, atoll, barrier island, archipelago, coral reef.

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Treasure Map

Draw your own

COMPLETED MAP!

Just as Robert Louis Stevenson did when he wrote his novel TREASURE ISLAND, you can design your own fictional map and write a story about it! Here is an example of a map someone made using our TREASURE MAP!