

## LEARNING GUIDE

### Texas Shipwrecks: Futtocks and Trunnels

Grades 4-7



*Boca Chica Shipwreck Number 2. Texas Historical Commission*

### Overview: Parts of a Ship(wreck)

Between the arrival of the earliest European explorers and the beginning of the 20<sup>th</sup> century, thousands of ships were wrecked along the Texas coast. Marine archeologists must understand what they're looking at when timbers are exposed in the sands or washed up on shore. In this activity, learners will match names and images of ship parts.

### Objectives

- Identify ship terminology and other marine archeological terms
- Label images of ship timbers from Boca Chica Number 3 shipwreck

### Social Studies TEKS

4<sup>th</sup> Grade: 21A-C, 22A

7<sup>th</sup> Grade: 7.2., 7.3, 7.3A

### Materials

- ship term cards worksheet
- ship image cards worksheet
- poster board or index cards
- scissors
- glue or tape

## Context

The Texas Historical Commission's State Marine Archeologist is responsible for the protection, preservation, and investigation of historic shipwrecks in all state-owned waters of Texas. Marine stewards (volunteer archeologists), as part of the Texas Archeological Stewardship Network (TASN), often help with investigations.

Fragments of a shipwreck began washing ashore Boca Chica Beach in south Texas in March, 2016. Mr. Kevin Reynolds, a member of TASN, was contacted by Texas Historical Commission to investigate. Upon arrival, Mr. Reynolds discovered that some people were burning the timbers to create large fires on the beach. He was able to collect the timbers for delivery to THC. Marine archeology staff continue to study three shipwrecks on Boca Chica Beach.

## Additional Resources

More information about the Boca Chica shipwrecks can be found here:

- THC marine archeology webpage <https://www.thc.texas.gov/preserve/projects-and-programs/marine-archeology>
- Article by THC marine archeologist Amy Borgens with contributions by Stephen Hoyt about the Boca Chica number 2 shipwreck, *Journal of Texas Archeology and History*, Volume 4, 1-42  
[https://drive.google.com/file/d/1lpCX9\\_3NiURCAbaqi4g1ZNCfDIQmcseK/view?fbclid=IwAR0T2bdQa6ehmrOsT92VnyF5VXO5CdCA23rtuln4NcRypDKlQtI3297ubKc](https://drive.google.com/file/d/1lpCX9_3NiURCAbaqi4g1ZNCfDIQmcseK/view?fbclid=IwAR0T2bdQa6ehmrOsT92VnyF5VXO5CdCA23rtuln4NcRypDKlQtI3297ubKc)

## Activity: Parts of a Ship(wreck) Matching

*10-15 minutes*

1. For sturdier matching cards, glue or tape the terms and images worksheets onto poster board or index cards before cutting them out.
2. Place the term and image cards in random order facedown.
3. Turn two cards over at a time. If the image and term don't match, or two of the same type of cards are turned, place them facedown again.
4. Turn two cards at a time until a term and image match. Remove matching pairs and continue until all cards are matched.

# SHIP TERM CARDS

## **hull**

frame or body of a ship that is below the waterline

## **bow**

front end of a ship; points forward when the ship is sailing

## **timber**

wooden post

## **trunnel**

hard wooden pin used to fasten timbers together

## **futtock**

curved timber piece that forms the frame of a ship

## **marine**

relating to the sea

## **iron**

### **concretion**

hard mass or shell formed around corroding iron; occurs over time

## **mast**

vertical pole that supports sails

## **wood grain**

lines that appear naturally in lumber; a result of sawing

## **deck**

covering on top of the hull; top "floor" of the ship that crew stand and walk on

# SHIP IMAGE CARDS



# Matching Key

