

Ships and Boats

By: Beth DiPasquale

Ages: 8 – 12



Introduction

Before there were cars, trains, or airplanes, boats were the fastest way to travel. Boats and ships helped to shape history, leading EXPLORERS to new lands and carrying goods, people, and ideas around the world. Ships and boats have changed a lot over the years, but they still share many FEATURES with the earliest designs. Let's take a look at some of the DIFFERENT kinds of ships and boats.

SPELL: HISTORY TRAVEL DESIGNS

Boats were the fastest way to travel before there were cars, trains, and _____. AIRPLANES

Ships were used to carry goods, people, and ideas to where? AROUND THE WORLD

Tell me one thing explorers carried to the new lands by boats. GOODS, PEOPLE, IDEAS

What else do you think the early explorers carried on their boats?

Early Ships and Boats

The original boats were carved from single wooden logs. Boats of this kind date back to the STONE AGE. People used fire along with tools made of stone, shells, or wood to hollow out the logs. These dugout CANOES were

Question Type Key

KNOWN - SEMI OPEN - PRIOR KNOWLEDGE - MATH - OPEN - VAKT

used in rivers, lakes and oceans around the world. People used long poles, paddles, or oars to move the canoes through the water. PADDLES and oars are long pieces of wood with broad, flat ends that push against the water to move the boat forward.

SPELL: CARVED HOLLOW FORWARD

What were the original boats made from? SINGLE WOODEN LOG

People used long poles, paddles, or _____ to move the canoes through the water. OARS

The tools that a person would use to carve out the boat were made from numerous materials, name one. STONE, SHELLS, WOOD

Name once place where people used these boats? RIVERS, LAKES, OCEANS



Dugout canoe

Later, people began to make boats with WOODEN frames. They used steam to bend the wood into the shapes they needed to make the frame of the boat. Then they COVERED the frame with bark or animal skins to keep out the water. People living in the far north made kayaks from DRIFTWOOD covered with seal skins. They used these boats to hunt and fish over wide areas that they would not have been able to reach without boats.

SPELL SHAPES BARK REACH

Question Type Key

KNOWN - SEMI OPEN - PRIOR KNOWLEDGE - MATH - OPEN - VAKT

What did people use to bend the wood to make a frame for their boat?

STEAM

Name the kind of boat made from driftwood and sealskins? KAYAK

What is one thing people used these boats to do? HUNT, FISH

Some frame ships, such as GALLEYS, were much larger than log boats. Thousands of years ago, many ancient CIVILIZATIONS around the Mediterranean Sea used galleys for trade and warfare. The Egyptians, the Greeks, the Persians, and the Romans all used galleys to build and maintain their empires. Galleys were frame ships covered with wood that carried many rowers. The largest galleys had hundreds of ROWERS sitting on several decks. Many galleys also had sails that would be used when the wind was blowing in the direction the ship was TRAVELING. Some galleys designed for warfare had Rams built into their prows that could pierce the sides of enemy ships.



Greek trireme

SPELL ANCIENT ROMANS DIRECTION

What is the name of a framed ship. GALLEY

Name one thing that galley ships used for. TRADE/WARFARE

Galleys also had _____ and used them when the wind was blowing.
SAILS

What would be used to pierce the side of an enemy ship? RAMS

Question Type Key

KNOWN - SEMI OPEN - PRIOR KNOWLEDGE - MATH - OPEN - VAKT

Over 1000 years ago, VIKINGS of Scandinavia used wooden framed long ships to cross the sea to raid coastal towns and villages in neighboring countries. A typical long ship was about 28 meters (90 feet) long and carried 20 to 30 OARSMEN. Like galleys, long ships had sails in addition to their oars. Viking longships were sometimes called “dragon ships” because of the dragon heads carved into their PROWS. The Vikings were skilled SAILORS and WARRIORS, and their ability to land by surprise anywhere along the coast gave them a big advantage in battle. They also used long ships for trade and EXPLORATION.



SPELL COASTAL DRAGON ADVANTAGE

How many years ago did Vikings use wooden framed long ships OVER 1000 YEARS AGO

The Vikings used wooden framed long ships over ____ ago. **1000 YEARS**

How long was a typical long ship? **28 METERS**

The Vikings were skilled _____ SAILORS/WARRIORS

What did Vikings use long ships for? **TRADE/EXPLORATION**

Sailboats and Sailing Ships

The ANCIENT Egyptians were using sailboats over 5000 years ago! The earliest sails were made from animal skins or from Reed mats. Later, sails were made out of strong LINEN or other cloth. Wind power captured by sails hanging from the MASTS eventually became the main method used to

Question Type Key

KNOWN - SEMI OPEN - PRIOR KNOWLEDGE - MATH - OPEN - VAKT

move boats and ships. Sailboats could travel much farther distances than ships that relied on rowers for their power. Sailboats could even sail against the wind by sailing a ZIGZAG course into the wind.



Chinese sailboat, called a Junk.

SPELL CAPTURED DISTANCES SAILBOAT

Egyptians used _____ and Reed mats to make the sails for their boats. **ANIMAL SKINS**

What became the main method of power to run the boats. **WIND**

What could sailboats do that rowing boats couldn't? **TRAVEL FARTHER**

Ancient Egyptians were using boats over _____ years ago? 5000

Where would you travel to in the world on a boat?

Around 500 years ago, larger sailing ships began to be built. These sailing ships were able to cross the ATLANTIC OCEAN and were used for trade and exploration. Famous explorers such as CHRISTOPHER COLUMBUS and FERDINAND MAGELLAN used sailing ships to travel from Europe to North and South America. Magellan was also the CAPTAIN of the first sailing expedition to sail completely around the world, a journey that ended in 1522 after more than three years.

Question Type Key

KNOWN - SEMI OPEN - PRIOR KNOWLEDGE - MATH - OPEN - VAKT



Clipper ship



U.S. Coast Guard training ship

SPELL EXPLORATION EXPEDITION JOURNEY

Which ocean did the larger ships sail across? ATLANTIC OCEAN

Who were the two explorers that used sailing ships? CHRISTOPHER COLUMBUS FERDINAND MAGELLAN

Where did Columbus and Magellan travel to from Europe? NORTH AMERICAN SOUTH AMERICA

What year did Magellan's expedition to sail around the world end? 1522

Steamships and steamboats

When steam engines were invented, they were used in many boat and ship designs. STEAMSHIPS did not depend on the wind for power; they could sail directly into the wind, or even when there was no wind at all, which no sailing ship could do. Steamboats using PADDLE WHEELS became an important way to move goods and people up and down the rivers quickly. One of the largest and most famous steamships, the TITANIC, sank in the NORTH ATLANTIC ocean after striking an iceberg in 1912.

Question Type Key

KNOWN - SEMI OPEN - PRIOR KNOWLEDGE - MATH - OPEN - VAKT



The Titanic

SPELL STEAM FAMOUS ICEBERG

What did steamboats use to move quickly down the river? **PADDLE WHEELS**

Name the steamships that was famous for sinking after it hit an iceberg. **TITANIC**

What year did the Titanic sink? **1912**

Modern Ships and Boats

Today, many boats are made of metal and plastic. Many ships and boats use **DIESEL** or gas powered engines to turn their **PROPELLERS**. The propellers push the boat through the water. Some modern boats use the ancient **CATAMARAN** design to travel very fast. A catamaran has two hulls, which keep most of the boats out of the water. This allows a catamaran to travel faster than most ships with only one hull.



Question Type Key

KNOWN - **SEMI OPEN** - **PRIOR KNOWLEDGE** - **MATH** - **OPEN** - **VAKT**

A modern catamaran

SPELL METAL PLASTIC MODERN

Name one material modern boats made of. **METAL, PLASTIC**

Name one thing that powers modern boats. **DIESEL, GAS**

A catamaran has two _____. **HULLS**

Although large, modern boats with gasoline or diesel **ENGINES** are everywhere, people still use smaller boats for fishing, fun, and sport. It is almost impossible to look at a river, lake, or ocean, and not see a variety of boats. Many smaller boats still use paddles, **OARS**, or sails, just as the earliest boats did. Some modern ships are very large. **CRUISE** ships are like floating hotels. They can carry thousands of people to **EXOTIC** destinations all around the world. Huge tankers carry oil and gas over the ocean. Oil tankers are very large ships that are often over 304.8 meters (1000 feet) long. The largest oil tanker in the world is over 457.2 meters (1500 feet) long - that's longer than the Empire State Building in New York is tall!



Cruise ship



Oil tanker

SPELL VARIETY DESTINATIONS TANKERS

Cruise ships are just like _____. **FLOATING HOTELS**

The largest oil tanker is over _____ meters. **457.2**

457.2 meters = _____ feet 1500

What building in New York is mentioned in this paragraph? **EMPIRE STATE BUILDING**

Question Type Key

KNOWN - SEMI OPEN - PRIOR KNOWLEDGE - MATH - OPEN - VAKT

Special Ships and Boats

Some boats and ships are designed to do special work. TUGBOATS push and pull larger ships in places where they can't move themselves.

Tugboats also guide very large boats to dock when there is little room to maneuver a big boat. Fire boats help put out fires on other ships. Ferry boats carry cars and people short distances. NAVIES use many types of ships and boats, large and small, to defend their coastal areas. Military transport ships carry soldiers around the world. SUBMARINES hide under the surface of the water. Aircraft carriers serve as floating runways and allow planes and helicopters to fly anywhere in the world. Cruisers and DESTROYERS patrol coastal waters.



Fireboat



Tugboat



Aircraft carrier



Submarine

Question Type Key

KNOWN - SEMI OPEN - PRIOR KNOWLEDGE - MATH - OPEN - VAKT

Conclusion

Ships and boats have played an important part in the advancement of civilization. For thousands of years, they have allowed people to explore their world and travel to places that were once out of reach. They are still an important way to move people and things quickly over the water.

SPELL FIREBOATS SOLDIER MILITARY

What kind of boat carry soldiers around the world? MILITARY

TRANSPORT SHIPS

What kind of boat hides under the surface of the water? SUBMARINE

What kind of boat allows planes and helicopters to land on it? AIRCRAFT

CARRIERS

What boat is your favorite boat? Why?