**Shortcuts**

**Sail with Ships**

The ship is one of the oldest means of transportation in the world. It is also one of the most important. Most of the goods that are traded between countries are transported on ships.

Without ships, it would be difficult to obtain products and raw materials from other countries. It would also be difficult to sell our products and raw materials to countries outside of our own. Ships have been providing these important services for thousands of years and will probably continue for many years to come.

A ship’s speed is measured in “knots.” One knot is equal to 1.15 mph (1.24 kph).

Why did the sailor call the navigator the “helmsman?” Because he was told to “drown the anchor.”

A basic “full-rigged” sailing ship has three masts. The “mainmast” is located at the middle of the ship. The “foremast” is at the front of the ship and the “mizzenmast” is at the back.

Throughout history, countries with strong naval fleets often became rich and powerful.

**From Stem to Stern**

The chart rails that surround the deck of a ship are called “bulwarks.”

The keel is a ridge that runs down the center of a ship’s hull from the front to the back. It is sometimes called the “backbone” of the ship.

A raised deck at the rear of a ship is called the “prow.”

What do you get when you cross a ship with a cow? A cattle of cattle.

A sea of change

A rudder is used to help steer the ship. People in Europe began placing the rudder at the center of the ship’s stern sometime in the 1200s.

Ships made of iron began to replace wooden ships in the late 1700s. Iron ships were actually lighter and stronger than wooden ships.

Steam-powered ships were introduced in the late 1700s and began to replace sailing ships during the 1800s.

In 1876, the propeller was invented simultaneously by Francis Smith of England and John Ericsson of Sweden.

**Land, Ho!**

Can you help this explorer reach the island?

**Word Search**

Can you find the hidden words? Search carefully because some words are backward or diagonal.

**Maiden Voyage**

The Egyptians created sailing ships made of wooden planks around 5000 B.C. This basic design, using sail and a hull made of planks, was improved upon but remained basically the same for the next 5,000 years.

The cog was a type of ship that was introduced sometime in the 1200s. Cogs were one of the first ships to have raised structures called “castles” located at the bow and stern.

Clipper ships are considered to be some of the most beautiful sailing ships. Clippers were first built in the United States in the mid-1800s.

Galleys were introduced in the mid-1500s. Galleons were used to transport precious items, such as gold and silver, because they combined the capacity of a cargo ship with the strength and firepower of a warship.

Galleys were long, narrow warships that were powered by many oarsmen.

Galleys were used by the Phoenicians, Mycenaeans, Phrygians, Greeks and Romans.

**For more information on ships, go to your local library and check out these books:**

*Ships, Sailors and the Sea* by Richard Rumelt ( Atmospheric Watts, A)” or *The History of the Ship* by Richard Woodman (Yale Press). Some of the best sailing ships of their time were built by the Vikings about 1,200 years ago.

Sailing ships often had numerous small sails because it was easier to handle many smaller sails than it was to handle one large sail.

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**Galleon**

FLEET BOB RIGGER MAST COG MARINE ROD OAR CLIPPER SAIL GALLEY BOW SPIN STEM TON REP GIGA FLOPS AMOR EGDESIGNWOK DUALPROSRSHIP VERTICAL WET STAMP GALLEONGABEEP SEEIDEOSTWOAR PAYADCTOSEDUB PAMUGERBREER POWERREPPILCAT STANDOFKLZ

**What do you get when you cross a ship with a cow? A cattle of cattle.**

**Flash, bang, what’s there? A anchor. A flaxen wench, what’s there? A anchor in deck.”**

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