

Open your eyes to a world of discovery









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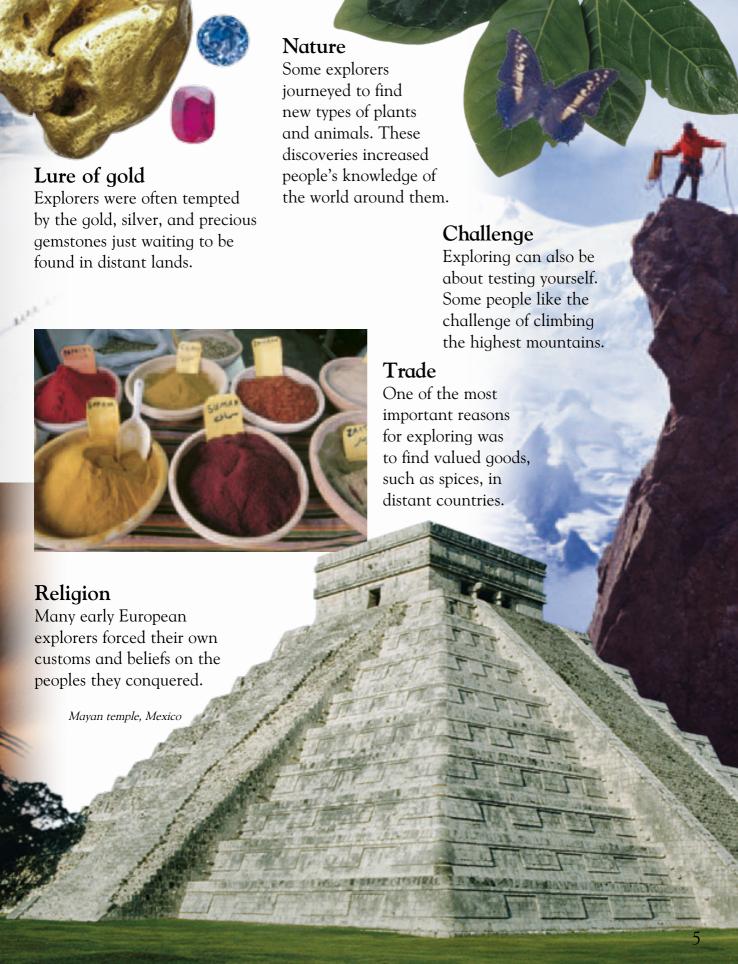
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Who were they?

This map of the world was created thanks to the great journeys of many brave explorers. Whether traveling on foot, by camel, or by boat, they shared a strong sense of adventure.



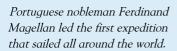
Viking raiders from Scandinavia sought out new lands across the Atlantic Ocean. Erik the Red went to Iceland, and his son Leif Eriksson journeyed to North America.



Meriwether Lewis and William Clark traveled by canoe along the rivers of North America in the early 19th century. Italian seaman Christopher Columbus set sail for Asia, but found North America instead.

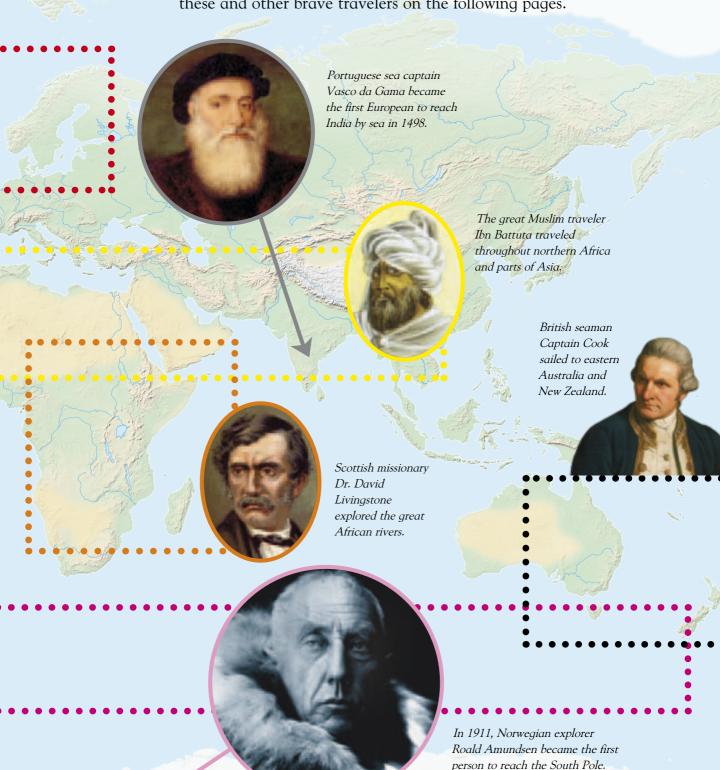


Spanish conquerer Francisco Pizarro set sail to South America and found the magnificent Inca Empire of Peru.





This map shows some of the great explorers throughout history, and where they went to. Find out more about these and other brave travelers on the following pages.



Early explorers

People have always gone on long journeys. The first travelers left Africa to look for new places to live. Later, explorers went on journeys to trade with other people.



Sea traders

The best seafarers of the ancient world, the Phoenicians built their ships using cedar trees from their native land of Lebanon in the Middle East.



Queen Hatshepsut of Egypt

Queen Hatshepsut's fleet of ships journeyed to the land of Punt, in Africa. They brought back many riches, such as ivory and ebony.

Egyptian relief from Queen Hatshepsut's chapel

JASON THE EXPLORER

Many ancient Greek legends were inspired by real journeys of exploration. The legend of Jason's search for a golden fleece,

or sheepskin, may be based on truth. Ancient people living to the northeast of Greece used sheepskins to trap the gold from water flowing in their streams.



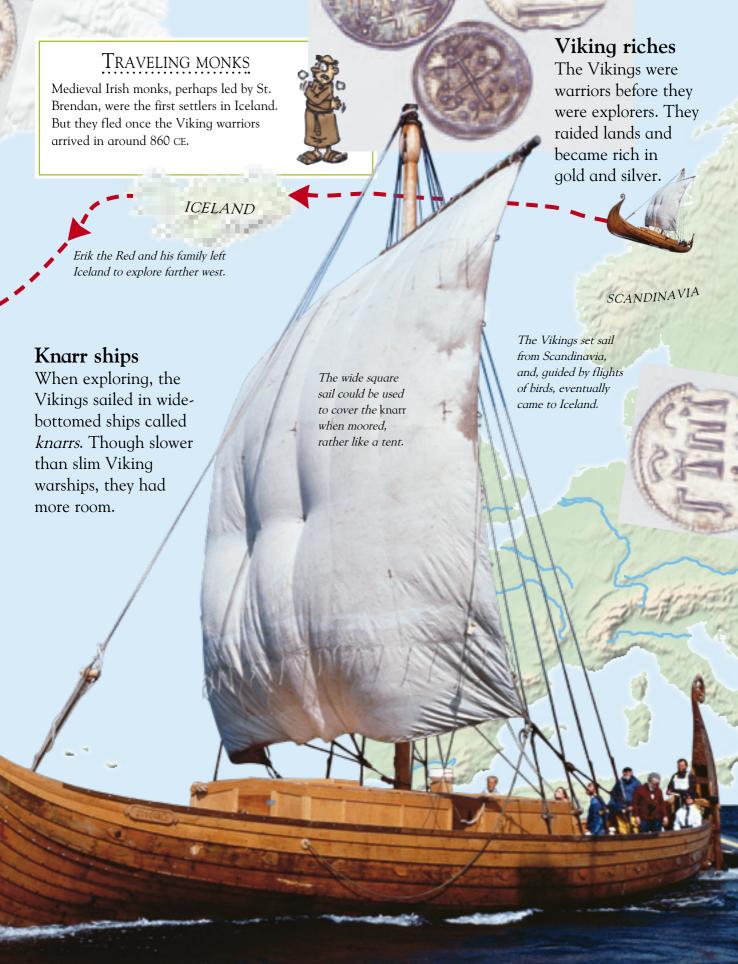
Chinese explorers

Chinese traveler Chang Chi'en trekked along the dusty Silk Road to central Asia and brought back news of distant lands.



Chang Chi'en led a hundred men from China to central Asia.





Arabian adventures



In the 14th century, the Muslim world spread far and wide. Muslims, followers of the faith of Islam, were highly educated. They also loved to travel, and none more so than brave adventurer Ibn Battuta.

Mecca

Ibn Battuta's main reason for traveling was to visit the holy site of Mecca, the birthplace of Islam, as all Muslims seek to do.





Ibn Battuta

Ibn Battuta journeyed for nearly 30 years across Asia and north Africa. He covered about 75,000 miles (120,000 km)—about the same as three times around the world.





Setting sail

Arab explorers and traders sailed across the seas in small boats called *dhows*. They are still used in the Middle East today.

The dhow's triangular sails help it sail close to the wind.



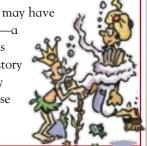
The Arab people were great navigators. They developed the astrolabe, which helped sailors plot their position at sea by measuring the height of the Sun.

River view

Ibn Battuta sailed on a *dhow* along the Nile River in Egypt and was captivated by everything he saw.

SINBAD THE SAILOR

The daring exploits of Arab seafarers may have inspired the tales of Sinbad the sailor—a major character in the group of stories known as *The Arabian Nights*. One story tells how Sinbad was taken captive by the Old Man of the Sea and had to use great cunning to set himself free.





Marco Polo was only 16 when he set sail from Venice with his father and uncle.

Journey into China

In the 13th century, Italian explorer Marco Polo arrived in Asia and journeyed along the dry, dusty track known as the Silk Road into China. When he eventually arrived at the court of the emperor Kublai Khan, he had been traveling for more than three years.

MARCO MILLIONS

On his return to Italy, Marco Polo told the stories of his travels. Some of his tales are extraordinary. He told of enormous birds that dropped elephants from a great height, and then ate them. He told of a city that had thousands of bridges. These far-fetched tales earned him the title "Marco Millions."

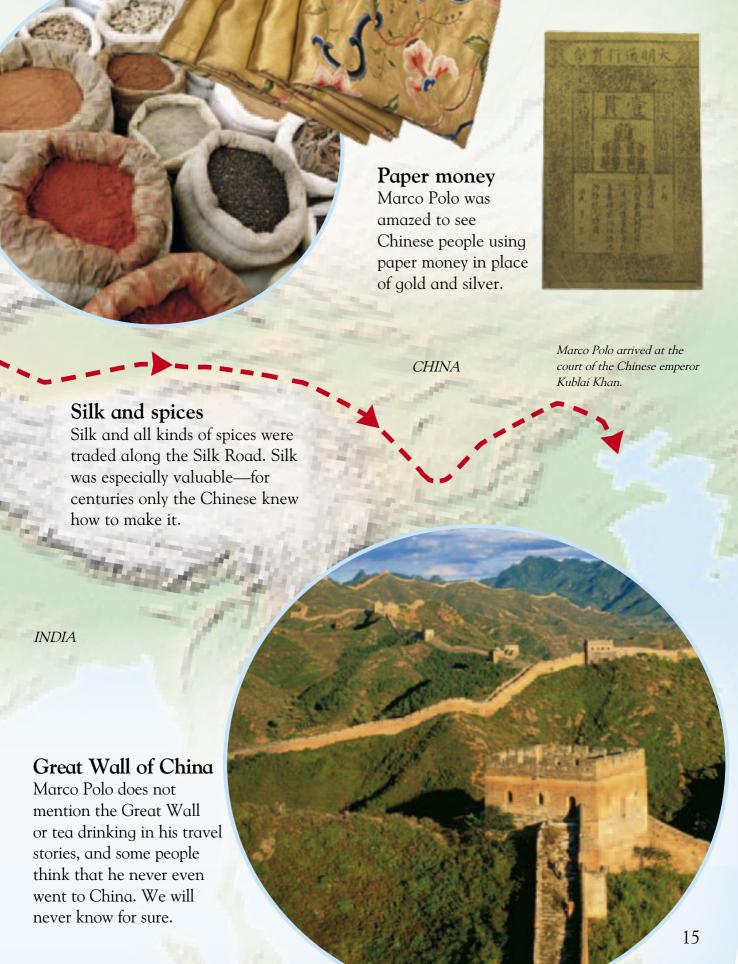
The Polo family began their travels through Asia at Acre in the Middle East.

Camel travel

Like other merchants, Marco Polo traveled by camel train along the Silk Road. The route was a dangerous one—bandits lurked around every corner.

"9 only told half of what 9 saw."

Marco Polo



The high seas

In the 1400s, European sailors set out on long ocean voyages. Their goal was to reach Asia. The continent was rich in spices, gold, jewels, and silk—treasures that the Europeans were desperate to get hold of.

I saw three ships

Columbus took three ships on his voyage to America. The largest was the Santa Maria.

Columbus

Vasco da Gama





East or west?

Two explorers set out in opposite directions to find Asia. First, Italian seaman Christopher Columbus sailed west, then Portuguese captain Vasco da Gama sailed south and east.

Wrong continent

Columbus did not make it to Asia, but he did find America. He never realized his mistake and thought he had reached the Indies (the old name for Asia). That is thought to be why Native Americans are sometimes called "Indians."

SOUTH AMERICA

MONSTERS OF THE DEEP

It was easy for sailors out in the vast open seas to imagine strange creatures lurking there. Sailors told each other stories of sea monsters attacking ships and eating men.

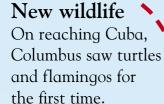


INDIA

"At a very tender age,
I went to sea sailing,
and so I have continued
to this day."

Christopher Columbus

AFRICA





Into India

Vasco da Gama was the first European to travel to India by sea. He saw many strange animals, including rhinoceroses and elephants.



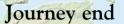
Around the world

Without really meaning to, Portuguese explorer Ferdinand Magellan led the first voyage around the world. As a result, the true size of the Earth was revealed, and it was proved once and for all that we live on a round planet.



Setting sail

Magellan's goal was to find a route to the Spice Islands of Asia. He offered his services to the king of Spain, and his expedition set off in 1518.



After three years at sea, Magellan's ship, the *Victoria*, returned home safely. It was now captained by Spanish seaman Juan del Cano.

SOUTH AMERICA

Magellan referred to the calm waters of the Pacific as the "sea of peace." This early map shows the Strait of Magellan through which Magellan sailed.

Narrow passage

Magellan is said to have wept for joy when he came through the dangerous, stormy passage at the tip of South America that is now named after him.

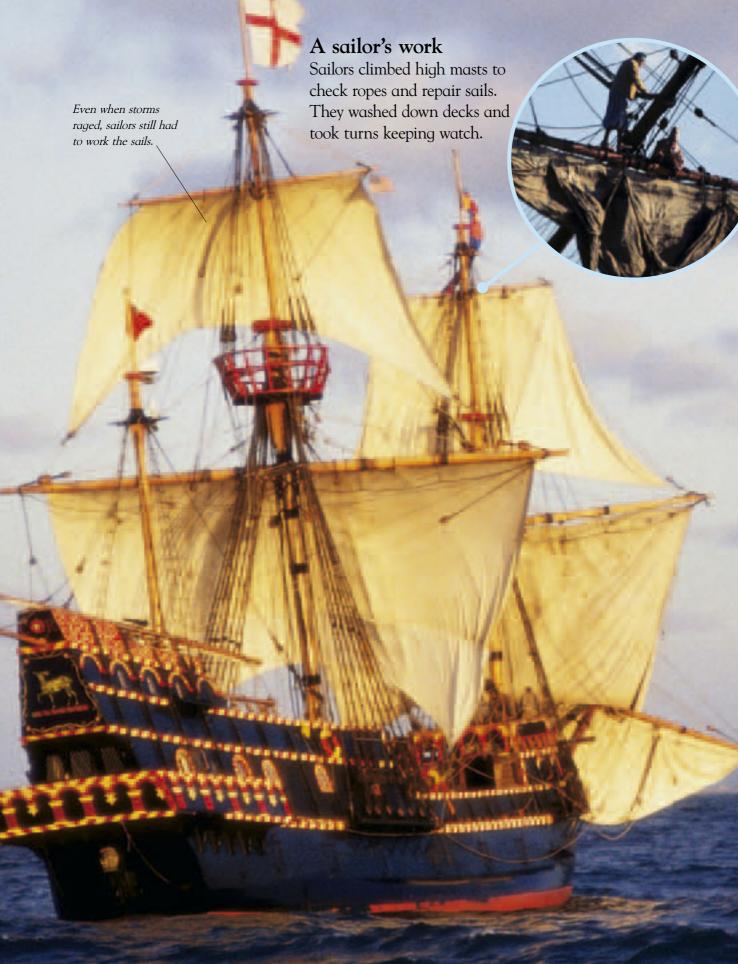
18



"After a voyage of more than three years, we have arrived."

Juan del Cano

Round world
After Magellan's
voyage, people knew
the size and shape of
the Earth, and accurate
globes could be made.



A seafarer's life

Life on board ship was tough for sailors of long ago. Voyages could stretch on for months, even into years. Sailors had no fresh food to eat.

The work was long and hard.

Cat-o'nine-tails

If a sailor disobeyed orders, he would be punished. One method was to be whipped with a "cat-o'nine-tails."

The cat-o'nine-tails is a whip with nine pieces of rope.

A sailor's feast

It was impossible to store fresh food for long. Sailors feasted on ship's biscuits that would keep for years, but which were often infested with maggots.

Hammocks swing sideways so they do not tip out sleeping sailors.

Slumber party

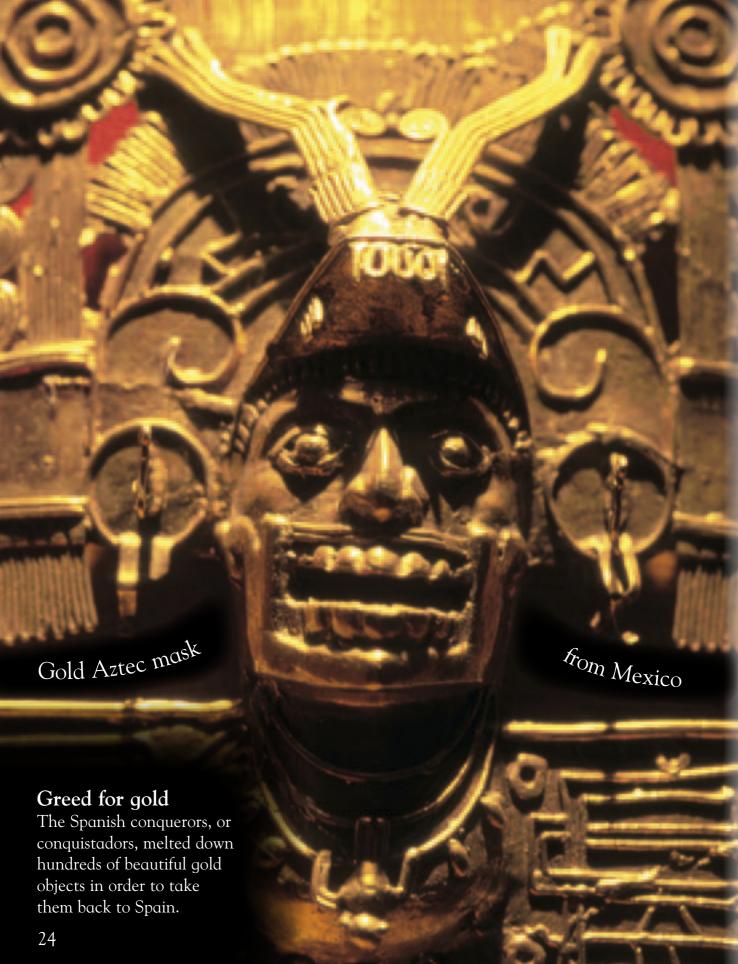
If they were lucky, sailors slept in hammocks, which protected them from the rat-infested, wet decks below.

Disease

With dirty conditions and no fresh food to eat, sailors could catch a disease called scurvy. This led to many sailors dying at sea.







Quest for gold



When Spanish explorers reached Central and South America they came across cultures very different from their own. The Spanish did not understand these peoples, but they did want their gold.

Cortes the god

When the Aztec people of Mexico first saw explorer Hernan Cortes, they thought he was a god. But Cortes had come to conquer them.



Temple worship

Cortes was appalled by the Aztec practice of sacrificing humans to their gods. He ordered that temples be destroyed. Later, the Aztecs were converted to Christianity.

Peaceful people

Explorer Francisco Pizarro was peacefully received by the Inca people of Peru. But, like the Aztecs, they were soon under attack. Armed with guns, the Spanish found it easy to overcome both peoples, whose weapons were more basic.

The Incas lived high in the Andes Mountains.

Aztec spear .

Lewis and Clark US President Thomas Jefferson sent Lewis and Clark to explore the American west. This was land that had recently been bought by the US.

Their journey Lewis and Clark traveled from St. Louis by canoe, following the river routes until they came to the Pacific Ocean.

Into America

In 1804 two Americans, Lewis and Clark, set out from St. Louis to explore western North America. They braved grizzly bears, wild rivers, and rugged mountain ranges on their quest to open up this land, known only to the Native Americans who lived there.







Peace pipe

Generally, Lewis and Clark got along well with the Native peoples they met. They often smoked a pipe of peace with them.

Bear chase

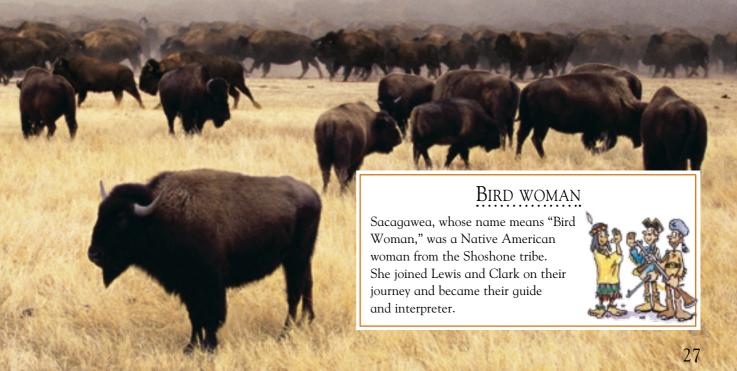
Lewis and Clark were very scared at one stage—they were chased into a river by an angry brown bear. It took several bullets to kill it.



Paddle power

The best way to travel into North America was by canoe along the many rivers that cross this vast land.

Explorers traveled in canoes made of birchbark, which were light and easy to handle.



Into the jungle



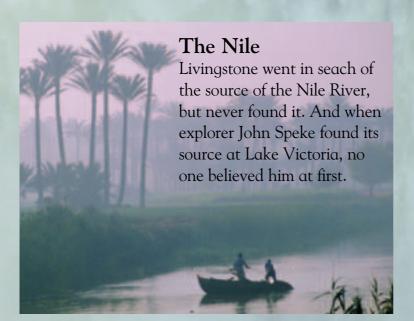
In the 1800s, Africa offered a real challenge to the bravest explorer. There was the threat of catching tropical diseases or being attacked by wild animals. But Scottish explorer David Livingstone was determined to go there.



Dr. Livingstone
David Livingstone
was a doctor and a
missionary. He wanted
to go to Africa to
help people.

Mighty waterfall

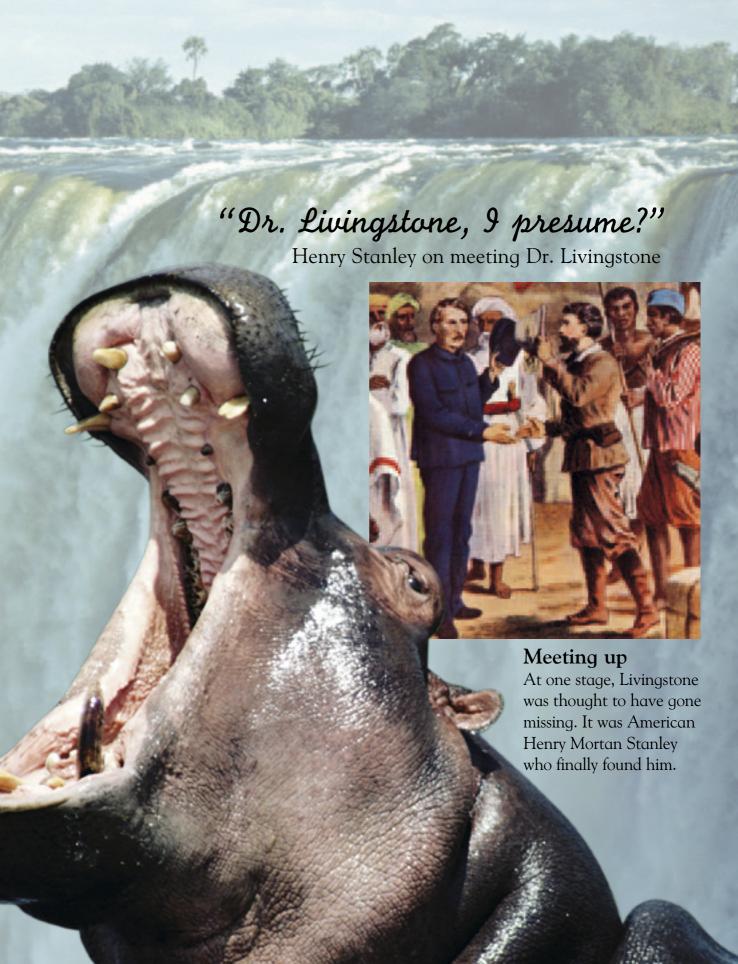
Livingstone found a huge waterfall called *Mosi Oa Tunya* ("smoke that thunders"). He renamed it Victoria Falls after Britain's Queen Victoria.





River travel

The best way to explore
Africa was by boat, though
this could be dangerous.
Once, Livingstone's boat was
capsized by a hippopotamus.



The South Seas

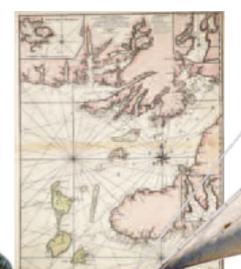
For years, the eastern coast of Australia was a mystery, and people thought the two islands of New Zealand were one. Then in the late 1700s, Captain James Cook set sail from England...



Captain Cook
Captain Cook set sail
from Plymouth. His
mission was to chart
the unknown regions
of the South Pacific.

Mapping it out

Captain Cook was a fine map drawer, or cartographer. He drew detailed maps of the Pacific Ocean.



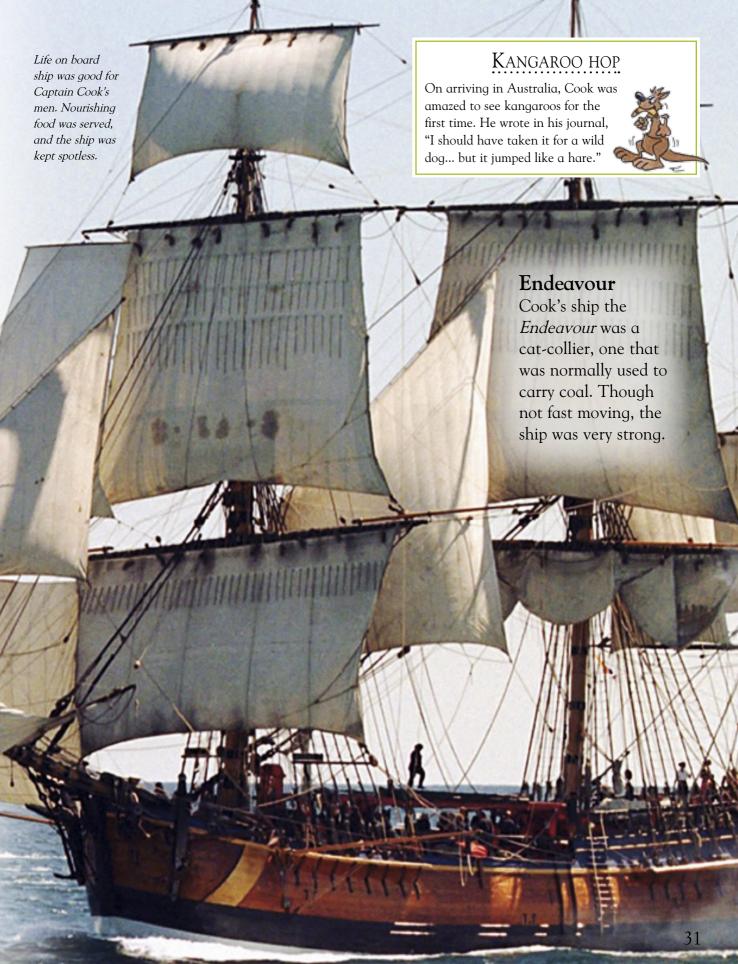
Paradise island

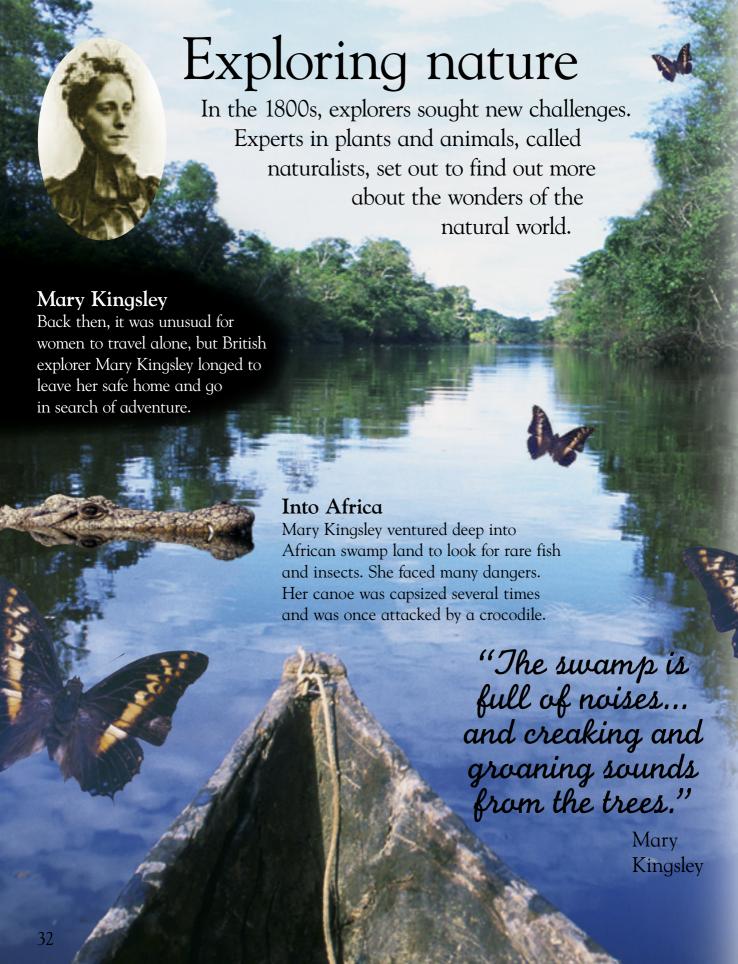
On his first voyage, Cook sailed to Tahiti, and the lush beauty of the island seemed like paradise.

The Maori tattooed their faces with elaborate patterns.

Honest people

Cook won the trust of the Maori people of New Zealand. He described the Maori as strong, honest, and brave.









To the North Pole

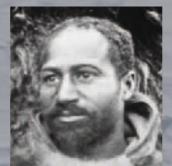
American explorer Robert Peary was determined to reach the North Pole. On one of many failed attempts, he got terrible frostbite, and his toes broke off.





"A few toes aren't much to give to achieve the Pole."

Robert Peary



Fellow traveler

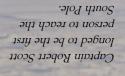
Matthew Henson was an invaluable companion to Peary on his expeditions. He was a skilled navigator and sled-driver, and could speak the local Inuit language.

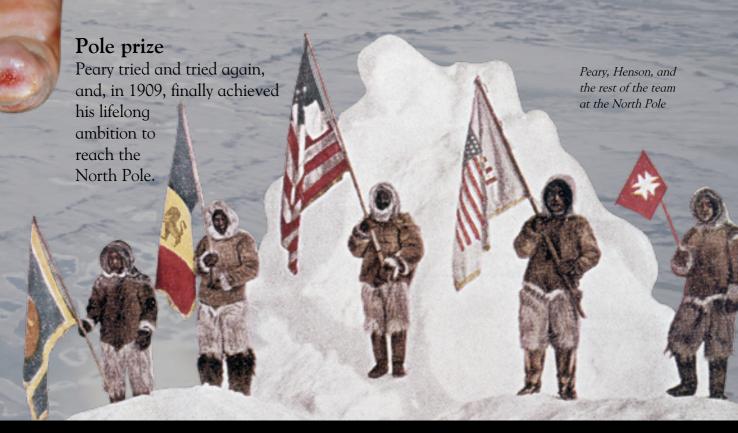
Poles apart



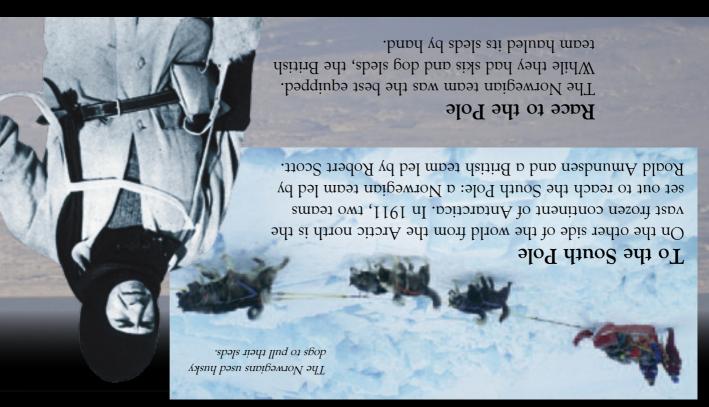


Winners and losers





By the late 19th century, explorers had traveled to most parts of the world—but the far reaches of the North and South poles still remained an icy mystery.



Mapping the deep

For many years, the ocean depths remained a mystery. People are not made to travel under water, and they need special equipment to help them. But, as diving technology developed, so people were able to explore a wondrous, watery world.

Hold your breath

The earliest divers held their breath when swimming under water, so could only stay below the surface for a few minutes. But the invention of the first diver's helmet allowed divers to stay under water for longer.

On the seabed

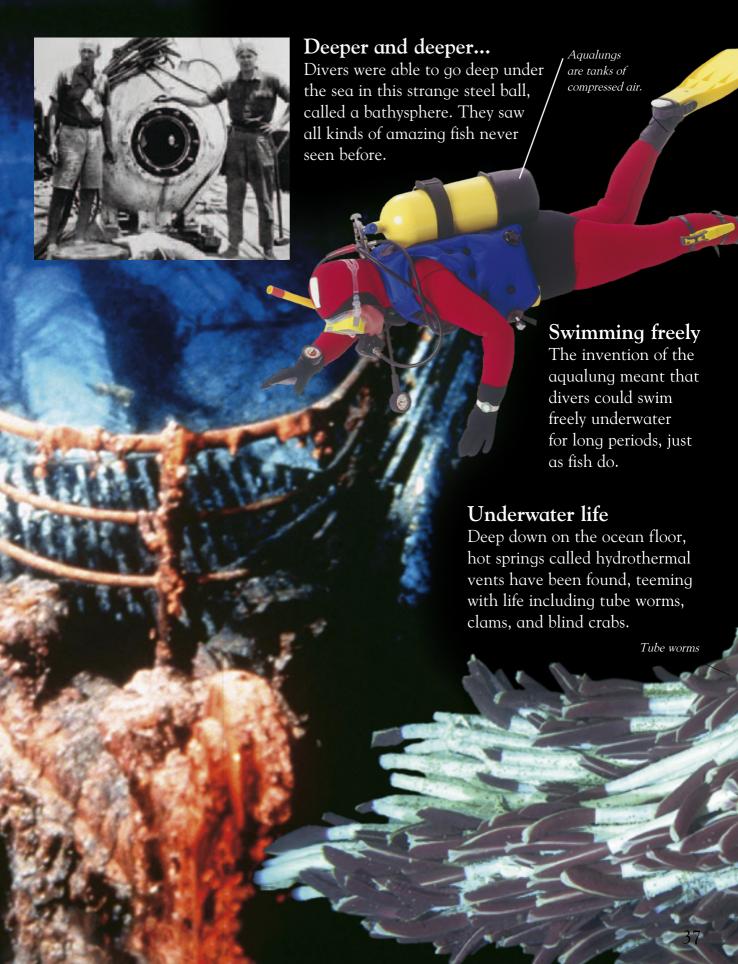
Shipwrecks and sunken treasure have been found at the bottom of the sea. In 1985, the wreck of the *Titanic* was discovered.

Early diving helmets were made of copper and were very heavy. Air was pumped into the helmet through a pipe.

SEA CREATURES

The underwater world was once shrouded in mystery. Sailors would tell stories of all kinds of sea creatures, including mermaids combing their hair and singing songs that lured men to their deaths.

3003









Space race

For centuries, people dreamed about traveling into space and exploring distant planets. But it was not until the late 1950s that the United States and the Soviet Union battled to be the first nation to send a person deep into space.

Sputnik 1

The space race really began with the launch by the Soviets of the first artificial satellite *Sputnik* 1 in 1957. It orbited Earth every 96 minutes.



First in space

When *Vostok 1* powered into orbit in 1961, Soviet astronaut Yuri Gagarin was strapped inside. He was the first human to enter space.



Footprints made by Armstrong and Aldrin will remain on the Moon for millions of years, since there is no wind to remove them.

First on the Moon

In 1969, three American astronauts—Neil Armstrong, Edwin Aldrin, and Michael Collins—blasted off from Earth in *Apollo 11.* Their mission was to reach the Moon.

40

The command module inside Apollo 11 was called Columbia, named after Italian explorer Christopher Columbus.





On to Mars!

People have been fascinated by Mars for centuries, and have longed to set foot on this red planet—the closest one to Earth. In 1976, the first mission to Mars took place—but only robots, not people, landed there. These robots were the Viking landers. Further expeditions followed, but no life-form has been found on Mars.

Viking invasion

The Viking landers took a year to reach Mars. They studied the climate on Mars, took pictures, and sent them back to Earth.

> The lander's robotic arm scoops up soil and looks for signs of life.

LIFE ON MARS

Mars has often been seen as a possible threat to Earth. The novelist H. G. Wells came up with the idea of a Martian invasion of Earth in his book. The War of the Worlds.

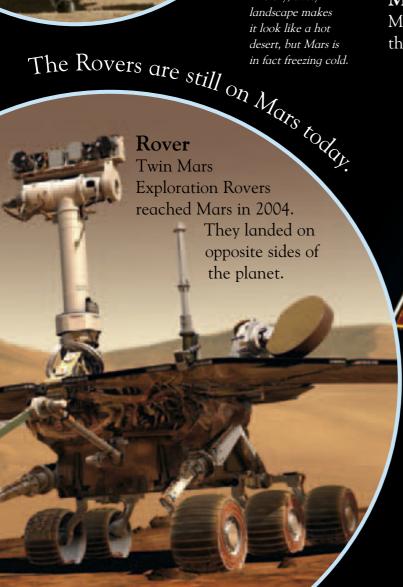
the litting landers took the first ever pictures of the surface of Mars.

The Rovers trek about 130 ft (40 m) across the surface in a day, analyzing rocks and soils.



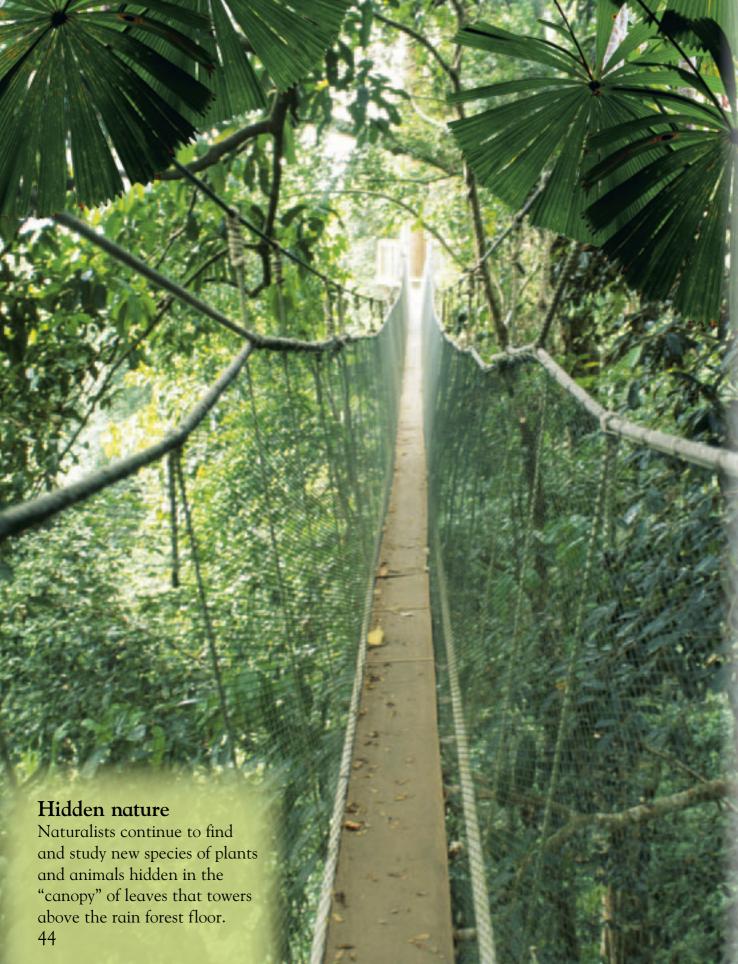
landscape makes

Mars is known as the red planet because of the rusty-red dust that lies on its surface.



Hubble telescope

Exploring space is not just about visiting planets, it is also about observing. The Hubble Space Telescope helps people find out new things about the universe.



Today's explorers

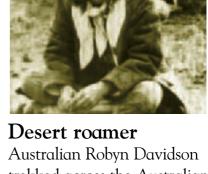
Today, most of the world is known and charted, and exploring has become more about endurance and breaking records than discovering new places.

Exploring the past

Exploring can also be about making great discoveries from the past. British archeologist Howard Carter found the tomb of Egyptian pharaoh Tutankhamun in 1922.

> An amazing collection of gold and ebony treasures were unearthed in Tutankhamun's tomb.





Australian Robyn Davidson trekked across the Australian desert for six months with four camels and a dog for company.



Cave exploration

About 3,000 years ago, ancient peoples explored the Yucatan caves in Central America, and caves are still being discovered in the region today.

Across ice and sand

Explorer Ranulph Fiennes journeyed around the world crossing both North and South poles. He also found the legendary Lost City of Ubar in the Arabian desert.



Explorers

This timeline lists the explorers found in this book, when and where they explored, and the page numbers on which they can be found.

Queen Hatshepsut Egyptian 9 c. 1490 BCE Sailed from Egypt to Punt in Africa

Chang Chi'en Chinese 9
138-160 BCE Trekked along the Silk Road
in central Asia

Erik the Red Norse 6, 10 980s CE Sailed from Iceland to Greenland

Leif Eriksson Norse 6, 10 1000s CE Sailed from Greenland to North America

Marco Polo Italian 14-15 1271-91 Traveled across Asia to China

Ibn Battuta Moroccan 7, 12-13 1324-53 Traveled across Asia and north Africa

Christopher Columbus Italian 6, 16-17 1492-1504 Sailed from Europe to the Americas

Vasco da Gama Portuguese 7, 16-17 1497-98 Sailed from Portugal to India

Ferdinand Magellan Portuguese 6, 18-19 1519-22 Led the first voyage around the world

Hernan Cortes *Spanish 25*1519-21 Conquered the Aztec people of Mexico

Francisco Pizarro Spanish 6, 25 1531-33 Conquered the Inca people of Peru James Cook English 7, 30-31 1768-79 Sailed to the South Pacific

William Clark American 6, 26-27 1804-06 Traveled by canoe across North America

Meriwether Lewis American 6, 26-27 1804-06 Traveled by canoe across North America

Charles Darwin English 33
1831-36 Naturalist who explored around
South America

David Livingstone Scottish 7, 28-29 1841-73 Journeyed into Africa

Henry Bates English 33 1848-59 Naturalist who explored South America

John Speke *English 28 1854-1860 Discovered the source of the Nile River*

Edward Whymper English 39 1865 Climbed the Matterhorn in Europe

Henry Morton Stanley American 29 1871-89 Journeyed into Africa

Matthew Henson American 34-35 1908-09 Explored the Arctic; first to reach the North Pole Robert Peary American 34-35 1908-09 Explored the Arctic; first to reach the North Pole

Mary Kingsley English 32 1893-1900 Naturalist who explored West Africa

Roald Amundsen Norwegian 7, 34-35 1910-12 Explored the Antarctic; first to reach the South Pole

Robert Scott English 34-35 1910-12 Explored the Antarctic

George Mallory English 39 1920s Mountaineer who died on Mt. Everest

Howard Carter English 45 1922 Archeologist who discovered Tutankhamun's tomb

Edmund Hillary New Zealander 38 1953 First to climb Mt. Everest

Tenzing Norgay *Tibetan 38* 1953 First to climb Mt. Everest

Yuri Gagarin Russian 40 1961 First man in space

Neil Armstrong American 40-41 1969 First man on the Moon

Robyn Davidson Australian 45 1977 Trekked across the Australian desert

Ranulph Fiennes English 45
1992 Explored across North and South poles

Glossary

Here are the meanings of some words it is useful to know when learning about explorers.

Astrolabe an early navigation tool that shows the position of the planets and stars.

Caravel a small Spanish or Portuguese ship of the 15th and 16th centuries.

Cartographer a person who draws maps.

Cat-collier a ship used to carry coal.

Conquistador Spanish conqueror of the Americas.

Crosstaff an early navigation tool that measured the position of the stars.

Dhow an Arab boat with triangular sails.

Inuit native peoples of northern Canada, Alaska, and Greenland.

Interpreter a person who translates for people so that they can speak to each other in different languages.

Knarr a wide-bottomed Viking ship.

Log book a book that holds a record of a ship's progress.

Navigation to figure out the position, course, and distance traveled.

Naturalist a person who studies plants and animals.

North Pole the northernmost point on Earth.

Scurvy a disease caused by a lack of vitamin C.

Settler a person who goes to live in a previously uninhabited or sparsely populated area.

Source the point of origin of a stream or river.

South Pole the southernmost point on Earth.

Swamp an area of wet, marshy land.

Uncharted an area of land not recorded on a map or chart.

Yeti Legendary monster believed to live in the Himalyas.



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Front cover image shows a member of an expedition to Base T3 on Ice Island in the Arctic.

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