

Deep Sea Technology

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An Underwater World

Earth's surface is made up of land and water. More water than land covers Earth. There are rivers, seas, bays, lakes, ponds, and five huge oceans.

Many scientists study the oceans. They explore underwater. Scientists believe that **about** half of all the animals on Earth live in **oceans**.



Underwater Inventions

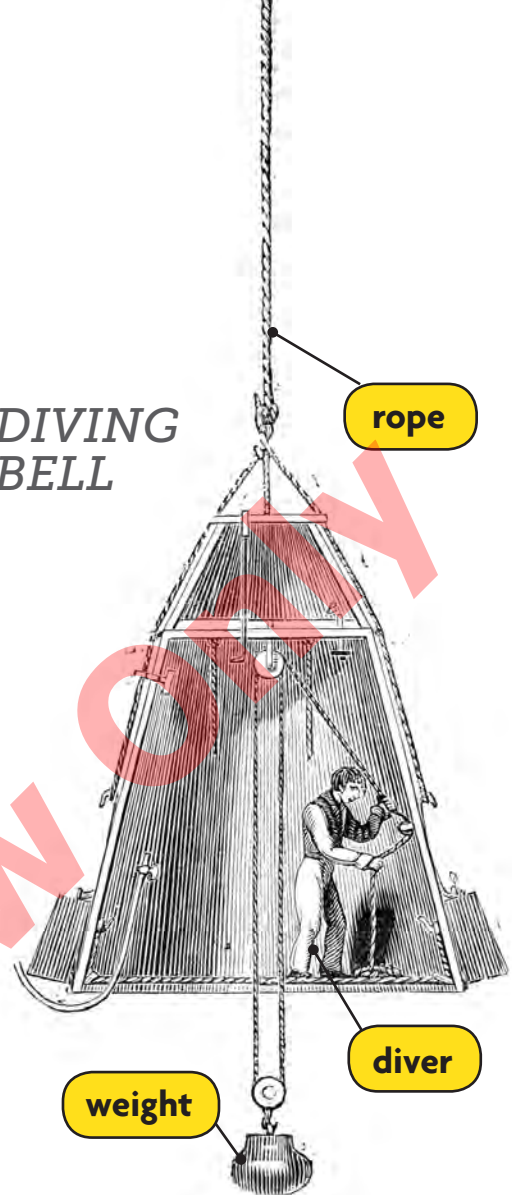
Two early inventions helped people explore underwater. They are still in use today.

Hundreds of years ago the diving bell was invented. A diving bell is a large, heavy container filled with air.

As the bell sinks underwater, the air stays inside. The diver, or person inside, can breathe. The diver can look out a window, but can't explore.

Diving helmets were invented after diving bells. The helmet is attached to a hose. The hose brings air from above the water into the helmet. This allows the diver to breathe. The diver can move around underwater but is still attached to the hose.

DIVING BELL



▲ Old diving bells were lowered into the water with a rope. The weight at the bottom helped the bell to sink.



◀ diving helmet

Jacques Cousteau

Over 75 years ago, a French diver named Jacques Cousteau invented a new way of diving. He changed how people explore the underwater world.

Jacques Cousteau was born and lived in France. From the time he was a little boy, Cousteau loved the water.



Jacques Cousteau



Goggles help swimmers see underwater. ►

One day, when Cousteau was a young man, someone gave him a pair of swimming goggles. Cousteau could see underwater with these goggles. He was amazed by what he saw. He saw beautiful fish and sea creatures.

However, the goggles didn't let Cousteau breathe underwater. This meant he had to come up for air every few minutes. He wanted to stay underwater longer.

An Amazing Invention

THE SCUBA SYSTEM

Cousteau helped invent an underwater breathing system called scuba. Scuba allows divers to stay underwater for a long time. The divers breathe air from tanks on their backs. Scuba also lets divers move around freely. It changed the way people explore the oceans.



► FIRSTHAND ACCOUNT

I Love Scuba!

"I love to scuba **dive!** Why? Because you get to hang out in a whole **different** world. You see hundreds of **different kinds** of fish. They are every color you can imagine. **You see** amazing coral and huge plants.

"I **learned** how to scuba dive in New York City! Like most divers, I **learned** in a swimming pool. But then I went on a trip. I went diving in the Gulf of Mexico for ten days. It was incredible.

"Since then I have dived a lot. I wish I could go diving every day. Thank you, Jacques Cousteau!"

—Susan Buckley



**Jacques Cousteau
on *Calypso***



Jacques Cousteau became a famous underwater explorer. He traveled the oceans in his ship *Calypso* with his crew of divers. He called his divers “oceanauts.” He thought they were like astronauts, except they explored the sea instead of space.



Cousteau made movies and TV shows about his ocean adventures. They showed scenes of undersea life. At the time, filming underwater was very new. Viewers were amazed by the undersea world they saw on-screen.