

WHALE VS. GIANT SQUID

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WHITHIN

**₩**SCHOLASTIC

### SCIENTIFIC NAME OF SPERM WHALE:

"Physeter macrocephalus"

Meet the sperm whale.

**BIG FACT** 

The blue whale is the largest animal on Earth.

This whale looks like a big head with a tail. Its scientific name means "blower with a big head." It is the largest of all toothed whales. The sperm whale has the largest head of any animal that has ever lived on Earth.

> OID YOU KNOW The sperm whale has a blowhole at the front of its head.

> > LONG FACT Its head can be 20 feet long.

COLORFUL FACT Whales have red blood.

#### RUNNER-UP FACT

The sperm whale can grow to be 60 feet long and weigh 50 tons.

It is one of the world's largest whales. All of the biggest whales are baleen whales, which means they have no teeth. The sperm whale is unusual. It is a big whale that has teeth, but only on its bottom jaw.

SCIENTIFIC NAME OF GIANT SQUID:

"Architeuthis dux"

Meet the giant squid.

FACT Squid, octopuses, nautiluses, and cuttlefish are cephalopods.

> BONUS FACT On restaurant menus, squid is often listed by its Italian name, "calamari."

A giant squid is a mollusk. A squid belongs to a group of mollusks called cephalopods. Cephalopod means "head foot." A squid looks like a head attached to legs. It has eight A giant squid can be 60 feet long and weigh 450 pounds. legs and two extra feeder arms. The legs have suction cups The feeder arms have hooks and suction cups on the ends that act like hands.

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The giant squid has fins for steering. It propels itself by sucking water into its head and squeezing the water out. A squid works the same way as a jet engine.

**GIANT FACT** 

The largest squid are the giant squid and the colossal squid.

giant squid brain is the size

Most giant squid that have washed up on beaches are 20 to 30 feet long. That's a lot of calamari!

## EYES



The eye of a sperm whale is only about two inches wide.

#### **FUN FACT**

A sperm whale can dive down half a mile. There is hardly any light at that depth.

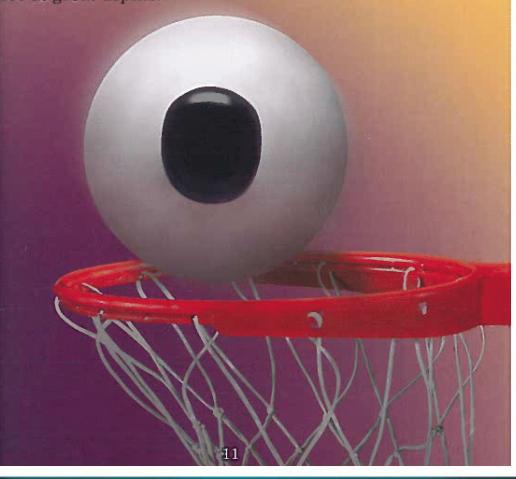
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## EYES

Here is a human eyeball.



Here is a giant squid eyeball in comparison. The giant squid eyeball is the largest eyeball in the world. It is as big as a basketball. Its giant eyeballs allow the squid to see at great depths.



## TEET

The sperm whale has long teeth. The teeth are shaped like sidewalk chalk. Notice that it has no teeth on its upper jaw. When a sperm whale closes its mouth, its bottom teeth fit into the indentations in its upper jaw.

FUN FACT
A sperm whale has 20
to 25 teeth on each side
of its lower jaw.
BONUS FACT
You can tell how old a
sperm whale is by the

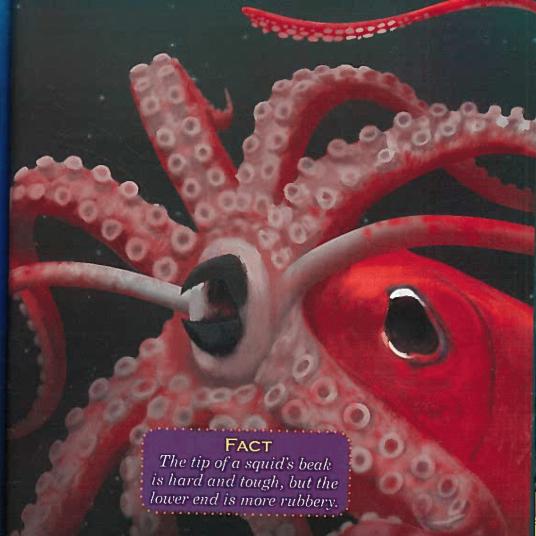
layers in its teeth,

DID YOU KNOW?

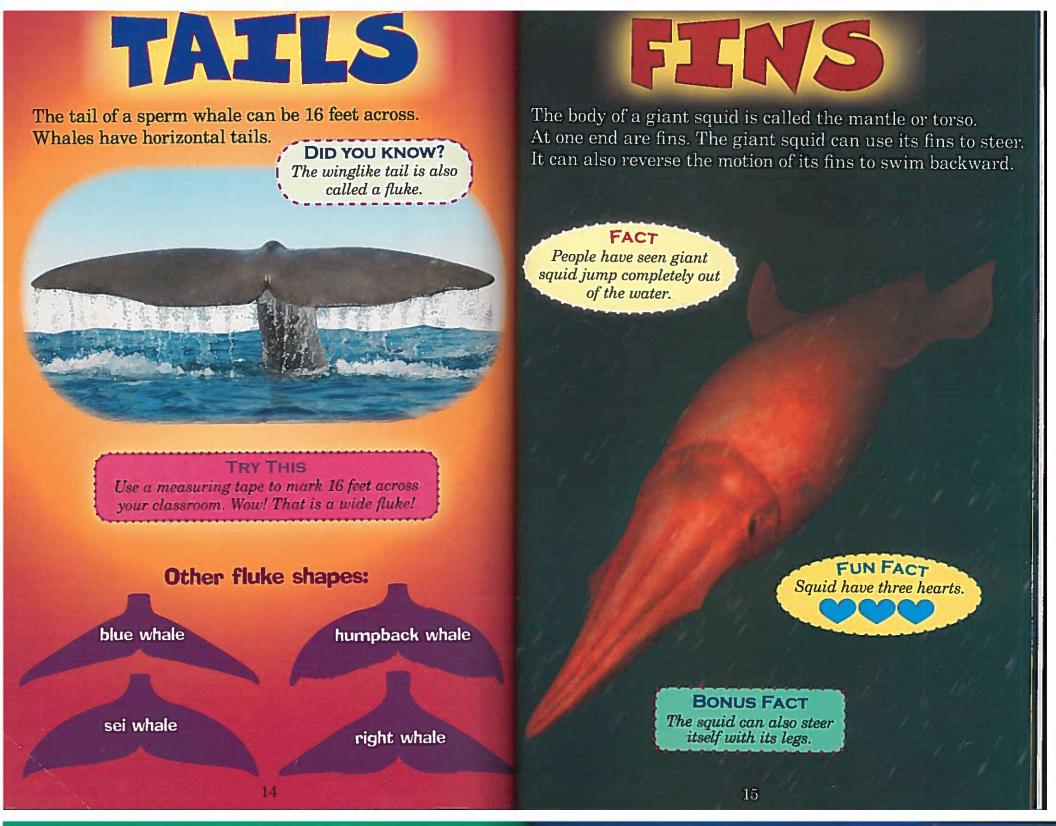
Whalers used to carve beautiful designs on whale teeth and whale bone. This type of art is called scrimshaw.

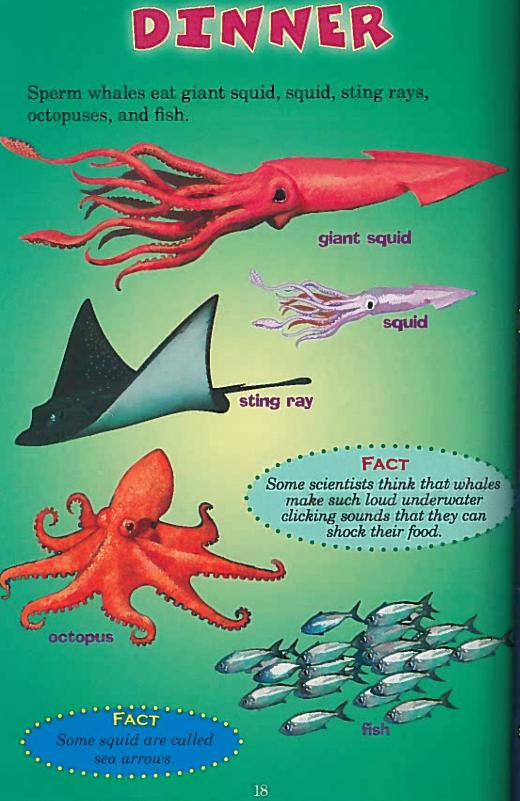
## BEAK

Between its eight legs and its two feeder arms is the squid's mouth. It does not have teeth. Squid have a beak. It looks like a parrot's beak.



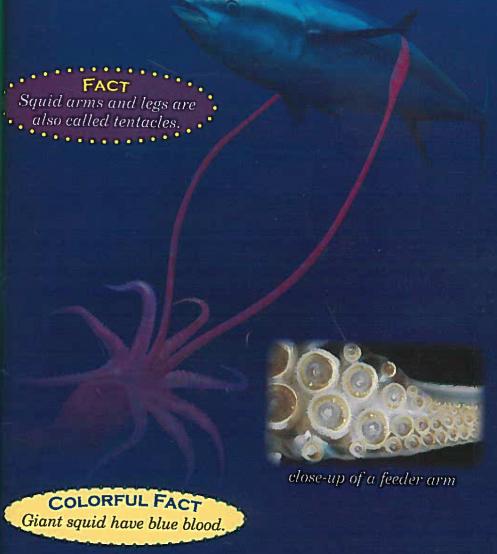
The beak is made of chitin, a material which is like your fingernails.





## SUPPER

Giant squid eat fish, shrimps, and other squid. They grab food with their long feeder arms. The feeder arms have sharp spines on the ends. They pull the food into their beaks.



## SPEED

A sperm whale can swim 25 miles per hour.



#### DID YOU KNOW?

A Dall's porpoise can swim faster than 50 miles per hour.

#### FUN FACT

The fastest fish is the sailfish. It can swim 90 miles per hour.



ocean floor

A giant squid can swim 20 miles per hour.

20

underwater canyon

## DEPTH

A sperm whale can dive half a mile deep.



Sperm whales can hold their breath for up to two hours. They usually submerge for about 45 minutes. tis not known how far a giant squid can dive. t can dive deeper than a whale. A giant squid is nore agile than a whale. It can change direction addenly and can swim backward.

FACT
Squid do not need to
come up for air.

sperm whale

1/2 MILE

Building

ocean floor

20

Empire State

### ECHOLOCATION

In deep water, the whale relies on echolocation to find its way around. It finds its food by bouncing sound signals off its prey. The whale is lucky compared to a squid. A giant squid cannot hear.

#### DEFINITION

Bouncing sound back from its prey is called echolocation. The whale uses this to learn where its food is.

### INK

We don't know how long a giant squid lives. Some scientists think it is only three years.

#### SECRET WEAPON

Squid blow black ink at their attackers. This is called billowing.

#### SOUND FACT

Sonar is the location of objects through sound waves. Bats, whales, shrews, and some birds have sonar. Submarines have sonar, too!

There are many things we don't know about the sperm whale. We don't know why they do not have teeth in their top jaw. We do not know how many get killed by giant squid.

Some
Some
famous chefs
use squid ink to
make black pasta. It
is called squid-ink
pasta.

We don't know how deep they can dive. We don't know how many there are. We don't know where they live, but it appears they prefer deep, colder water. We don't know why no one has been able to catch one alive.

#### DID YOU KNOW?

There are no known freshwater squid.

# WHO HAS THE ADVANTAGE?

WHA	LE GIAN'	r Squ
	Length	
	Weight	
	Eyes	
	Teeth	
	Weapons	

Speed