



Squid Anatomy

Read the summary for information to label parts of a squid, and answer the questions:

A muscular bag called a mantle makes up most of a squid's tube-shaped body. They used to have protective outer shells like snails, but over millions of years their shells evolved into a softer rod-like internal shell inside the mantle, called a pen, that protects their organs. Squid have two tentacles that are longer and stronger than its arms. The tentacles are usually hidden from view but shoot out to capture prey. Lined with suckers, the arms grip prey that has been caught by the tentacles and pass it to the squid's mouth which has a beak. The arms can also help steer the squid while swimming. As it swims, the squid beats two wing-like fins on the sides of its body. The fins also help the squid steer while swimming. Squid live in both shallow coastal waters and the depths of the ocean.



Find and label these parts:

Mantle
Tentacles
Arms
Suckers
Fins

Supercoloring.com

Questions:

1. What is the soft internal shell of a squid called?
3. Describe how a squid uses its tentacles, arms, and suckers to catch prey.
4. Why do you think squid can survive in shallow coasts as well as in deep ocean?
5. Imagine you are a scientist that studies squid. What questions do you have that you would like to discover the answer to?

Animal Adaptation Inspired Invention

Choose one of the squid adaptations from the summary in the learning guide, or choose another animal and one of their adaptations to plan your invention.

Animal:

Adaptation that interests me:

Ideas of what could I create that is somehow inspired by the animal's adaptation?

How is this useful, beneficial, or helpful to humans?

Sketch and label a design of your invention

Prepare to Skype a Scientist

Imagine you have an opportunity to interview a scientist to learn about something that interests you. Use this guide to help you plan your interview questions. Share your plan with classmates, neighbors, friends, your family, or another group. As a group, visit <https://www.skypeascientist.com/> to search for an available scientist, and complete the request to schedule a real interview. Have fun!

Choose and circle 3-5 different areas of science that you are most interested in.

Physics	Geology	Psychology	Climatology
Chemistry	Botany	Anthropology	Volcanology
Biology	Zoology	Economics	Biochemistry
Astronomy	Genetics	Neuroscience	Environmental Biology
Oceanography	Paleontology	Political Science	Computational Science
Ecology	Entomology		

Choose 5 questions from this list that you would ask to a scientist.

What inspired you to become a scientist?

What is the most exciting discovery you've made or been part of?

What is a typical day like for you as a scientist?

What challenges do you face in your work, and how do you overcome them?

How do you come up with ideas for experiments or research projects?

What is your favorite thing about being a scientist?

How does your work help people or the planet?

What advice would you give to someone who wants to become a scientist?

Are there any tools or technologies you use that might surprise people?

Now invent 5 questions on your own.

1.

2.

3.

4.

5.