

Gr 2 Science Interdependent Relationships in Ecosystems  
NGSS 2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats.  
LS4.D: Biodiversity and Humans  
There are many different kinds of living things in any area, and they exist in different places on land and in water.

Phenomena: Beetle



I see ~ Maka nānā 👁️👁️ I notice. I observe.

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

I think ~ Mana`o I think these bugs \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Next, read this page.

### Gathering Information About The Phenomena: Beetles



These bugs are called, **beetles**. Beetles are **insects** with **6 legs**, **2 antennas**, and **2 wings**. Beetles have an **outside skeleton** called an **exoskeleton** that protects their soft insides. People have bone skeletons inside their bodies.



Beetles, like this Ladybug, hide their wings under their **wing cases**. They open their wing cases when they want to fly.



Some beetles are huge! Gigantic! Enormous!  
**Rhino Beetle**                      **Elephant Beetle**



Stag beetles get their name from male deer, called **stags**. The beetle has **jaws** or **mandibles** that look like the **antlers** of a stag. Stag beetles use their jaws to fight and push away other stag beetles from food or female stag beetles.



Titan Beetle in Brazil

Goliath Beetle in Africa

Hercules Beetle in South America

These are the three biggest beetles in the world. These beetles in rainforest habitats.

I didn't know before, but now I know beetles...

I learned **beetles**

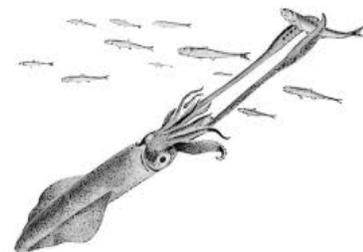
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### Phenomena: Cuttlefish and Squid ~ Māhe'e



I see ~ Maka nānā  I notice. I observe.

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

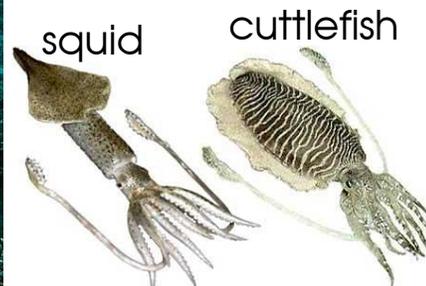
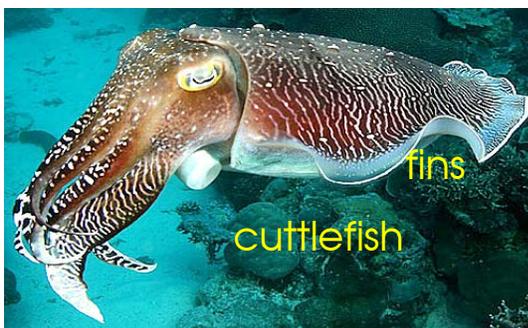
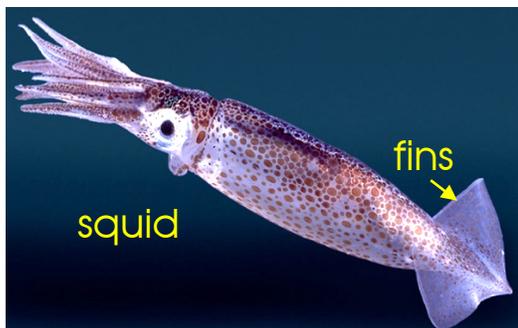
4) \_\_\_\_\_

I think ~ Mana`o I think \_\_\_\_\_

\_\_\_\_\_

## Next, read this page.

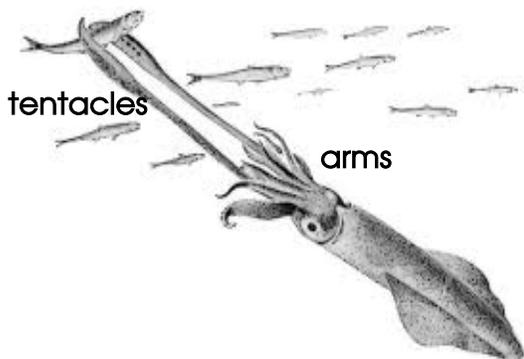
Gathering Information About The Phenomena: Cuttlefish and Squid Mūhe`e



Squid are a kind of cuttlefish. Squid have a skinny, long body with fins at its end. Cuttlefish have a wider body with fins all around it.

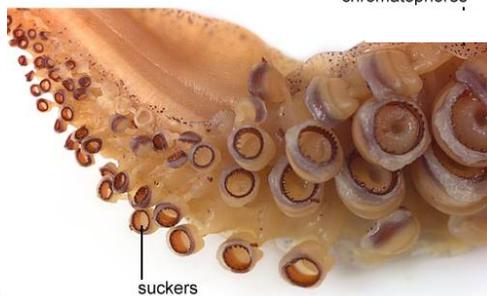


Squid have large round eyes that can't close. It has a clear covering that protects its eyes. Cuttlefish have W-shaped eyes that can close. Both have very good eyesight, but can't see colors.



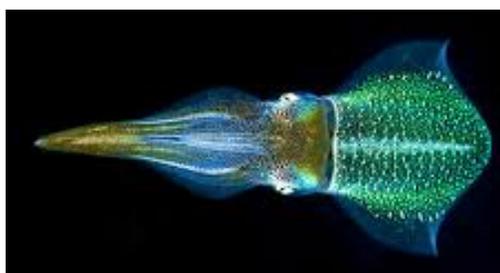
Squid - Tentacle (Close Up)

chromatophores



suckers

Squid and cuttlefish have 2 long tentacles and 8 arms. The tentacles have suckers to feel and taste things, and catch prey, like fish.



Some squid and cuttlefish can change their colors when scared, to camouflage and hide from predators or when finding a mate. Some can make themselves glow. They shoot out ink to get away from predators.



Octopus and



Nautilus are cousins of squid and cuttlefish.

I didn't know before, but now I know squid mūhe`e...

I learned squid \_\_\_\_\_