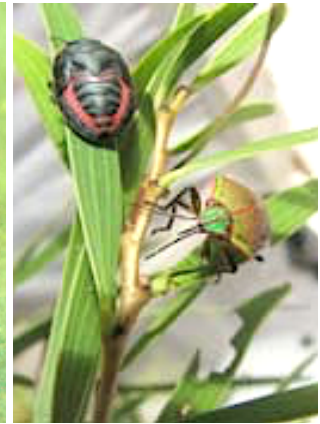
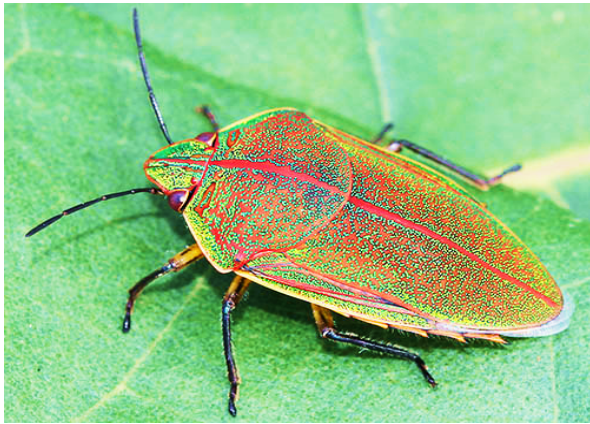


Gr 3 Science Interdependent Relationships in Ecosystems

NGSS 3-LS4-3. Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all. Needs and characteristics of the organisms and habitats involved. The organisms and their habitat make up a system in which the parts depend on each other.

Native Hawaiian Fauna Phenomena: Beetle



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

1) _____

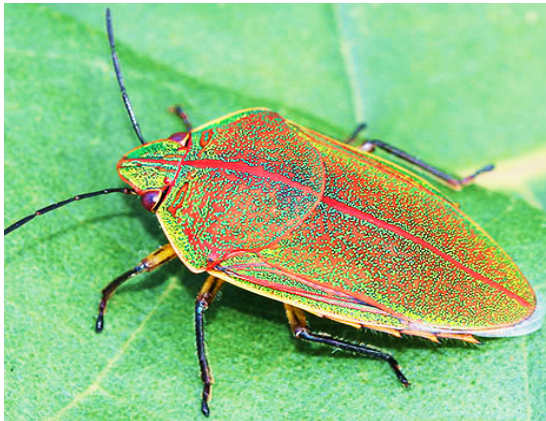
2) _____

3) _____

4) _____

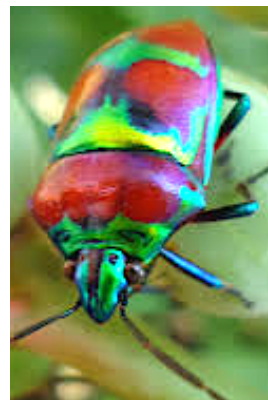
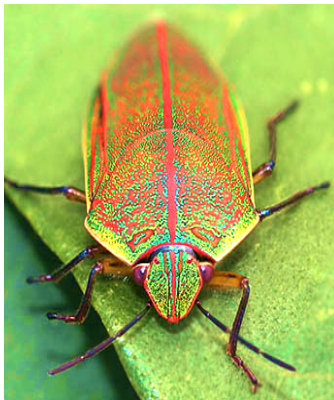
I think ~ Mana`o I think _____

Next, read this page. Gathering Information About The Phenomena:
Pu`u Koa ~ Koa Bug or Koa Beetle



Stink Bug

Pu`u Koa ~ Koa Bug is **native** to Hawai`i. It is **endemic** to Hawai`i which means it can only be found in Hawai`i. It is a cousin of the stink bug, but Koa bugs don't stink!



Pu`u Koa ~ Koa Bug

These are other jewel bugs

Pu`u Koa ~ Koa Bugs are **jewel bugs**. They are colorful and shiny, **iridescent**. The outside body is an **exoskeleton**, or outside skeleton. Insects are hard on the outside and soft inside. Humans have skeletons inside their bodies.



Pu`u koa have 4 wings. They make a buzzing sound when flying.



Female - girl



Male - boy

Life Cycle of the Pu`u Koa



Just laid eggs are green.



Later red eyes form.



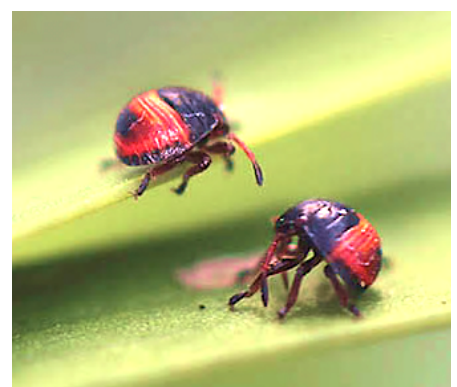
Soon to hatch!



Hatching koa bugs.



2 hours after hatching the exoskeleton hardens into red and black.



Baby nymphs



Istar



Adult pu`u koa



Pu`u koa don't chew, they have a **proboscis**, or feeding tube like this brown bug. It sticks the proboscis into koa and `a`ali`i seed pods to drink up the juices inside. Then tube is folded back.

Pu`u koa are interesting , because _____

Pu`u Koa Life Cycle Game!

Cut out the pictures and put them in order of the life cycle. Ask your `ohana to try, too!

