Creatures from the “Black Lagoon”/Cypress Dome

The bowl of the cypress dome is filled by rainwater. What could happen to the water in the dome if it doesn’t rain?__________________________________________

Circle the creatures you find. Add field notes (interesting facts) in nearby space.

Amphipod
Isopod
Water Boatman
Dragonfly Nymph
Bloodworm
Newt

Copepod
Crayfish
Backswimmer
Diving Beetle
Water Bug
Tadpole

What common aquatic creatures are missing? _____________
Why? _____________________________________________

Water & Wildlife: We Are All Connected

NAME _____________________
DATE _____________________

Gator CSI

How many spaces for teeth are present in the skull portion?__________________________________________

As accurately as possible estimate how many teeth would be in the entire gator’s mouth. (Remember there is an upper and lower jaw.)__________________________________________

What is the distance in inches from the nose to the eyes?_______
What is the approximate length of the gator in feet (1 inch = 1 foot)?__________________________________________

On what part of the alligator’s body are the osteoderms found?

How could the osteoderms act like a shield?__________________________________________

The osteoderms are imbedded in the alligator’s black skin. When the alligator sits in the sun and heats up his skin, what else would get warm?__________________________________________

How would this affect the alligator’s body temperature?__________________________________________
The pH Mystery: Acid or Alkaline?

Water’s pH can be changed by decaying organic material such as leaves. They can make it more acid. Likewise, bases such as calcium carbonate (the compound which makes up limestone) can make the water’s pH more alkaline.

To find Ph: These steps are out of order. Put numbers in front of each statement to indicate the correct order.

_____Invert the test tube
_____Add 3 drops of test solution
_____Match color of water to chart
_____Fill test tube to mark with water sample
_____Read Ph (Below 7 is acid, above 7 is alkaline)
_____Put cap on test tube

Sample: Cypress Dome
Ph _____ Acid or Alkaline?________________
Observe: What may account for the Ph reading in the cypress dome?_________________________

Sample: Wakulla River
Ph _____ Acid or Alkaline?________________
Observe: What may account for the Ph reading in the Wakulla River?_________________________

Strength in Weakness

To observe how a weak acid reacts with solid limestone:

These steps are out of order. Put numbers in front of each statement to indicate the correct order.

_____Add 7 drops of the weak acid to the cup
_____Rub or gently knock two pieces of limestone together
_____Observe and record what happens
_____Collect the dust and place in the small cup

OBSERVATIONS:
What happened as the weak acid was added to the limestone dust? ________________________________
What is happening to the limestone?______________

Water can slowly flow through limestone because it is porous (filled with small holes and cracks). As water from the cypress dome sinks into the limestone bedrock and slowly moves through the rock to the Wakulla River, how might the size of the holes and cracks in the limestone change?_________________________
_________________________