Aquatic Insect Investigation!

Circle the insects/water creatures you found:



water boatman



damselfly nymph

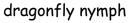


water beetle



water strider





caddisfly larvae

mayfly nymph

minnow



mosquito larvae



stonefly nymph



scud/fairy shrimp



pond snail

Name:

What was the best ADAPTATION you saw?

Draw your own insect! What kinds of adaptations would it have?

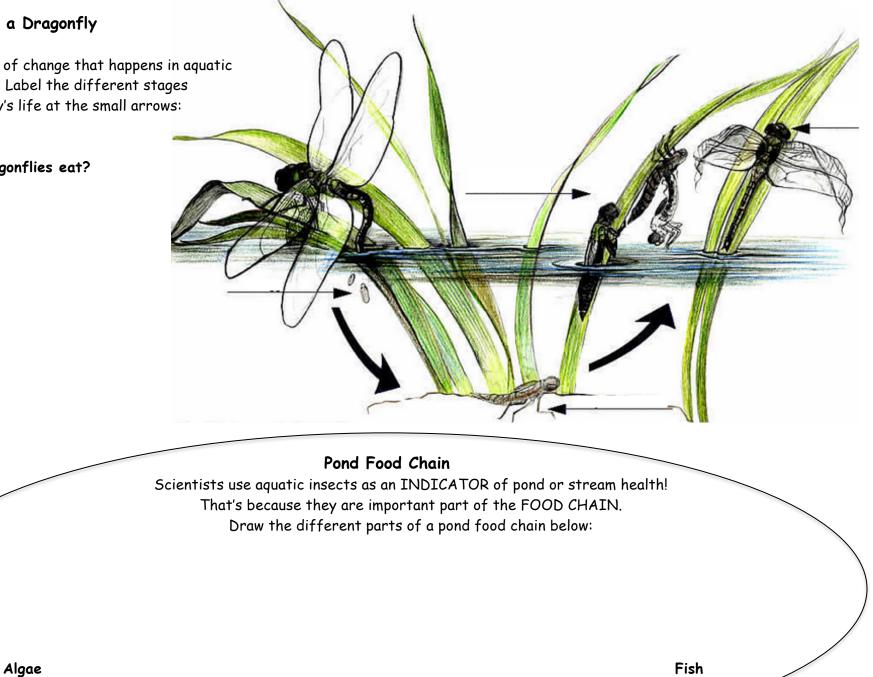
Name your insect:

Lifecycle of a Dragonfly

There is a lot of change that happens in aquatic environments! Label the different stages of a dragonfly's life at the small arrows:

What do dragonflies eat?

 \triangleright



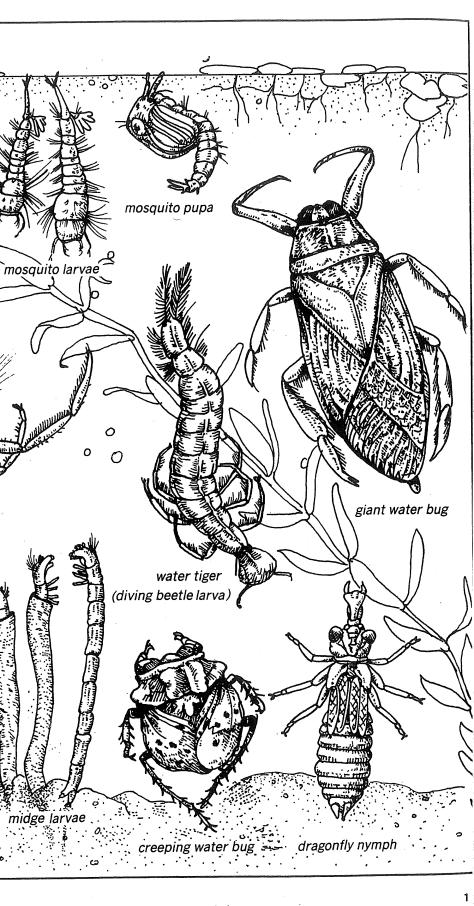
Mayfly Larvae

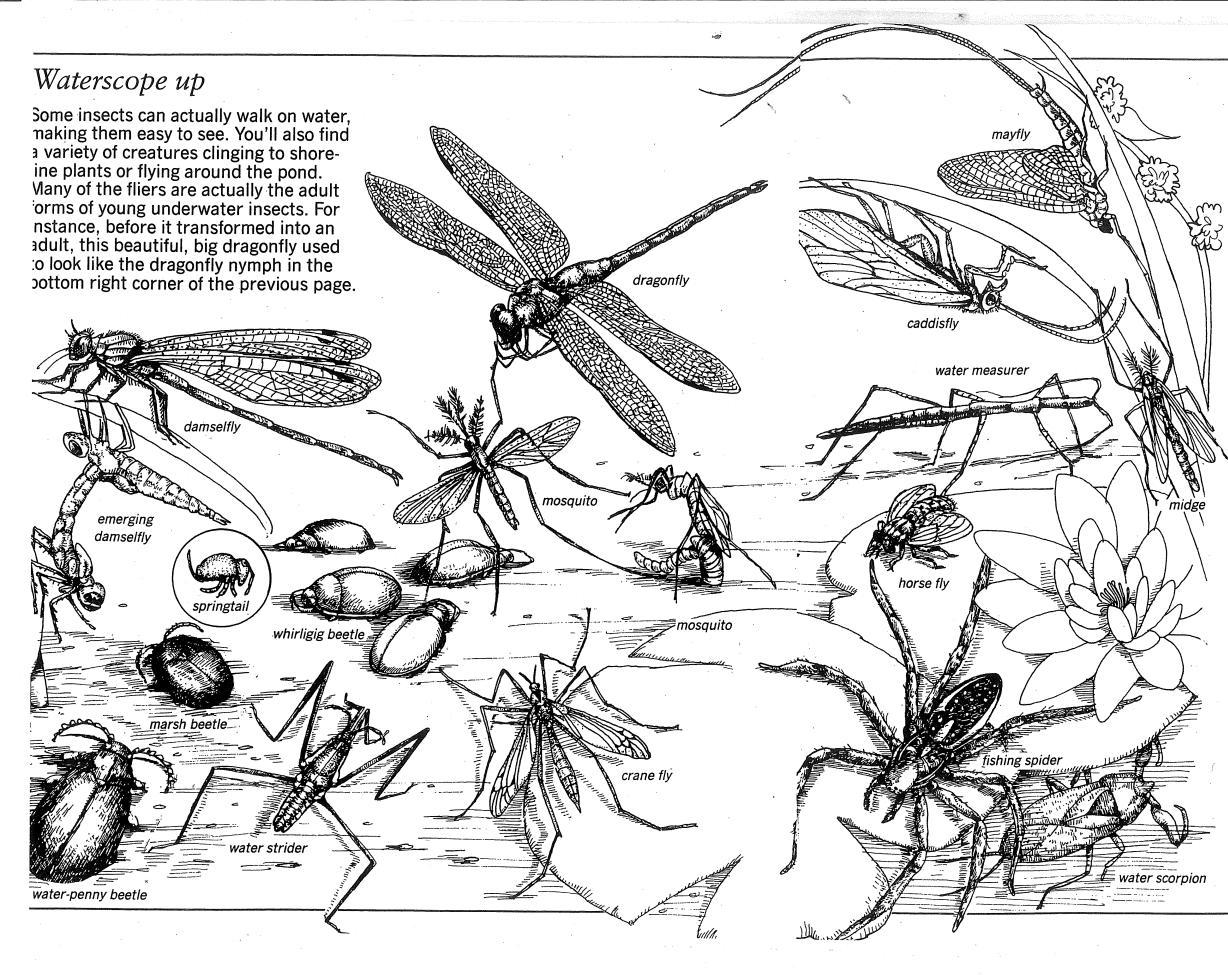
Water Beetle

Waterscope down .

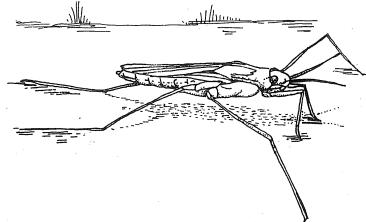
Here's a sneak preview of what you might see when you start exploring insects underwater. Grab your new waterscope and head for the pond.

fly larva Many of these insects are still "youngsters" in the larva and nymph stages and will look very different when they get older. Turn the page to see how they've changed. Omayfly nymph beetle n o water boatman rat-tailed maggot 🔨 larva damselfly nymph backswimmer \bigcirc 0 caddisfly larva predaceous diving beetle crane fly larva crane fly pupa Ð. alderfly larva





How do insects walk on water? Wouldn't it be great to be able to walk across a pond without even getting your feet wet? Some insects can do this because of something called surface tension. Water forms a very strong, elastic-like surface where it meets the air. The water molecules "stick" tightly together and act like an invisible barrier, covering the water. You can test the strength of the water's surface with a simple trick. Fill a glass with water and very carefully lay a needle lengthwise on top of the water. Make sure you don't prick the water's surface with the needle. Even though the needle is heavier than the water, it will float as long as the surface is not penetrated.



Like the needle, specially adapted aquatic insects can also stay afloat. The water strider, for example, has well-designed feet. They are covered with hairy tufts that act like snowshoes, spreading the insect's weight out over the surface so it can walk on the water. And unlike most insects, a water strider's claws are not on its feet, but part way up its legs. This prevents the claws from breaking through the surface layer.