

Metamorphosis Note-taking Guide - Answer Key

metamorphosis, weeks, water, exoskeleton, aphids, insects, gradually, hatchlings, cocoon, gobble, day, live. larva, many, food. leaves, seven, tadpoles, pupa, tail, molting, transformation, yellow, lungs

A baby ladybug is called a <u>larva</u>. Larvae hatch out of pale <u>yellow</u> eggs laid on the underside of <u>leaves</u>. These eggs are laid near colonies of <u>aphids</u> or plant lice.

Aphids are the ladybug's <u>food</u>. The larvae that hatch after four to <u>seven</u> days are born hungry.

The larvae <u>gobble</u> them up hungrily. In fact, they eat up to 50 aphids a <u>day</u> and grow really fast! But their outer covering, called the <u>exoskeleton</u>, does not grow and has to be shed. This shedding is called <u>molting</u>. A larva molts <u>many</u> times.

Two to four weeks later, the larva begins its almost magical <u>transformation</u>. It stops eating and creates a <u>cocoon</u>, called a pupa, to completely cover itself.

One week later, an adult ladybug emerges from the <u>pupa</u>, ready to start another life cycle. This kind of life cycle, in which the organism changes its form in each stage, is called <u>metamorphosis</u>.

Metamorphosis is mostly seen in <u>insects</u>, but animals like the frog also undergo metamorphosis. The <u>hatchlings</u> that emerge from the eggs or frog spawn do not resemble the adults at all.

They look like small living comets, and live under <u>water</u> unlike adult frogs that live on land. These hatchlings are called <u>tadpoles</u>, and they have gills and tails like fish.



A tadpole <u>gradually</u> changes and grows into an adult frog. It changes shape, loses its <u>tail</u>, and grows hind and front legs. It also loses its gills and develops <u>lungs</u>.

Soon, the transformation, which takes about 12–16 weeks, is complete. The young frog leaves the water and begins to live mainly on land.