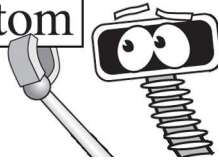


the _____ is

atom



CLOZE-ing in on Science!

5.10C: Metamorphosis Organisms and Environments

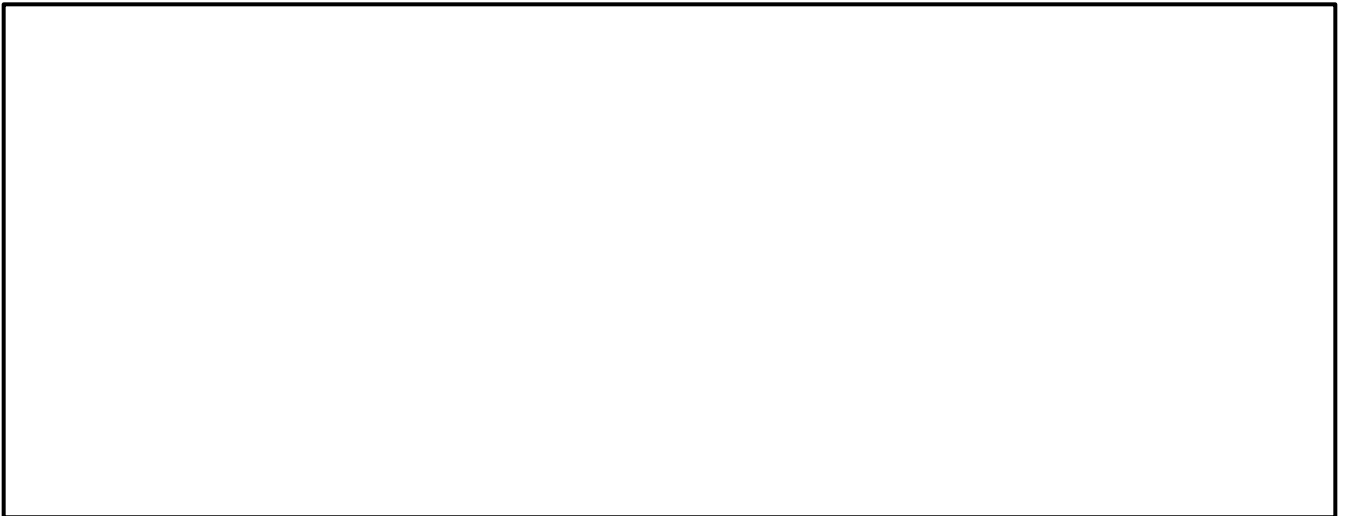
Name: _____ Date: _____

Key Concept 1: Complete metamorphosis in insects involves four distinct differences in life stages, including egg, larva, pupa, and adult.

Passage

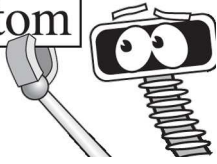
Some of the most familiar insects undergo complete metamorphosis. Once the _____ is laid in this type of metamorphosis, an insect will develop in the egg and then _____, or emerge, as a larva. During the larval stage the insect often looks worm-like, such as caterpillars of butterflies, grubs of beetles, or maggots of flies! Each of these insects also undergoes a change where they cover themselves with a special case and undergo their transformation into adults. Here, they each _____ in different ways but each _____, or comes out, as an adult!

Illustration



the _____ is

atom



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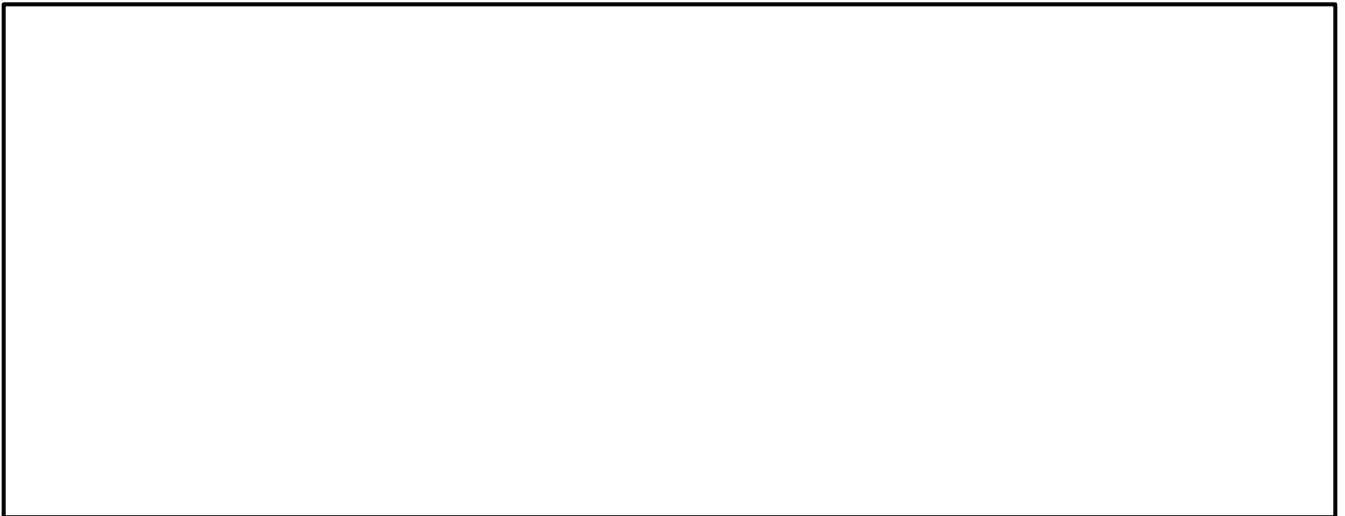
5.10C: Metamorphosis Organisms and Environments

Key Concept 2: Incomplete metamorphosis in insects involves three life stages including egg, nymph, and adult.

Passage

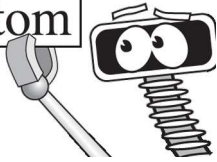
Incomplete metamorphosis is slightly different than what we observe in complete metamorphosis. Once again, the _____ is laid, and the insect develops until _____, or coming out, as a _____. At this stage, they look very _____ to the adult, but might be smaller and without wings. As they grow, they only change their outer coverings such as cockroaches do. The _____ stages can be many, as the insects are gradually increasing in _____ and many eventually will grow a set of _____ as in adult cockroaches.

Illustration



the _____ is

atom



CLOZE-ing in on Science!

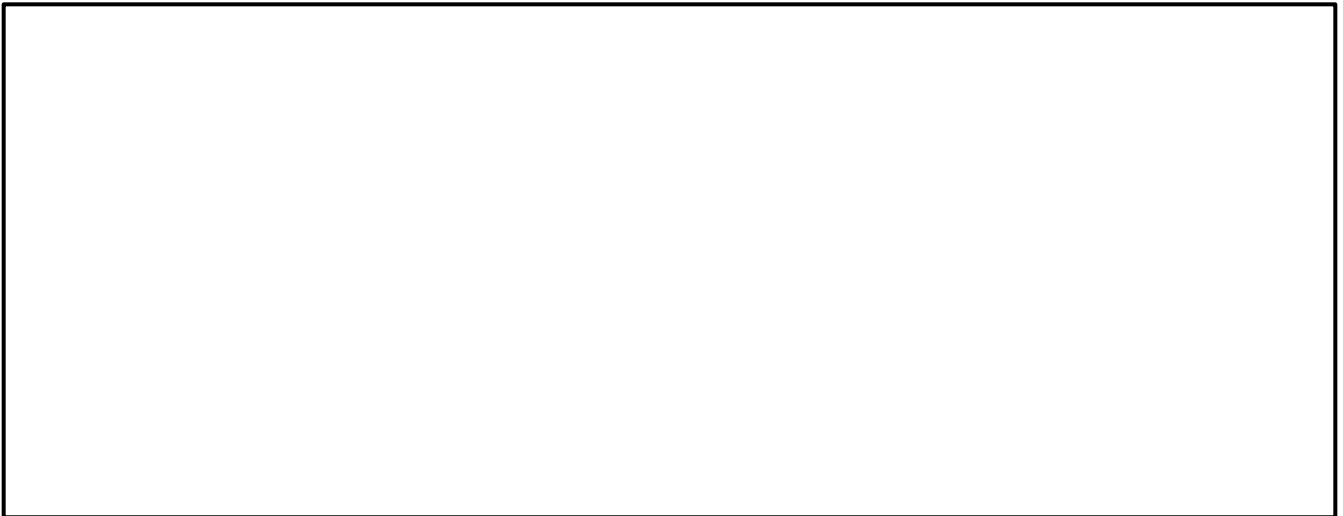
5.10C: Metamorphosis Organisms and Environments

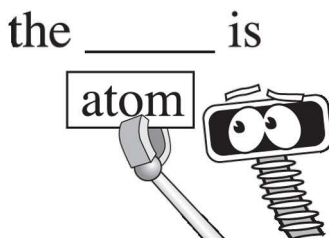
Key Concept 3: Butterflies and beetles undergo complete metamorphosis (four stages), while grasshoppers and walking sticks undergo incomplete metamorphosis (three stages).

Passage

Some insects undergo _____ stages of development including dragonflies. Other insects undergo only _____ different stages such as silverfish or walking sticks. Remember, the nymph stage is only seen in _____ metamorphosis, and although there may be 7-8 molts, this is the same nymph stage. The pupa stage is only seen in _____ metamorphosis, and is a time where the insect changes a whole lot. Think about ladybugs, moths, or bees – their larval and pupal stages are very very _____ than, or distinct from, their adult stage.

Illustration





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5.10C: Metamorphosis Organisms and Environments

Answer Key

Some of the most familiar insects undergo complete metamorphosis. Once the **egg** is laid in this type of metamorphosis, an insect will develop in the egg and then **hatch**, or emerge, as a larva. During the larval stage the insect often looks worm-like, such as caterpillars of butterflies, grubs of beetles, or maggots of flies! Each of these insects also undergoes a change where they cover themselves with a special case and undergo their transformation into adults. Here, they each **develop** in different ways but each **emerges**, or comes out, as an adult!

Incomplete metamorphosis is slightly different than what we observe in complete metamorphosis. Once again, the **egg** is laid, and the insect develops until **hatching**, or coming out, as a **nymph**. At this stage, they look very **similar** to the adult, but might be smaller and without wings. As they grow, they only change their outer coverings such as cockroaches do. The **nymph** stages can be many, as the insects are gradually increasing in **size** and many eventually will grow a set of **wings** as in adult cockroaches.

Some insects undergo **four** stages of development including dragonflies. Other insects undergo only **three** different stages such as silverfish or walking sticks. Remember, the nymph stage is only seen in **incomplete** metamorphosis, and although there may be 7-8 molts, this is the same nymph stage. The pupa stage is only seen in **complete** metamorphosis, and is a time where the insect changes a whole lot. Think about ladybugs, moths, or bees – their larval and pupal stages are very very **different** than, or distinct from, their adult stage.