

Name:

Nonfiction: Context Clues – Q1:4

Date:

*As you answer this week's questions, highlight your evidence in the text.*

## Where Do Bugs Go in the Winter?

It seems like bugs disappear in the winter, and then magically reappear in the spring. But what really happens?

Winter is dangerous for insects. Chilly weather destroys their food sources. Many bugs eat leaves, grass, or plants that die in the winter. Other insects eat nectar from blooming flowers. When flowers die, the nectar disappears.

Like fish and reptiles, insects are cold-blooded. So are spiders. They cannot make their own heat. When the temperature is cold, a bug's blood turns cold, too. In winter, bugs are at risk of freezing to death.

How do bugs survive the winter? Different bugs have different ways to survive. Some bugs migrate. Others hibernate. Some bugs produce offspring that come out in the spring.

**Migration:** Many bugs **migrate**. They move to warmer places to avoid harsh winters. Bugs that migrate include beetles, moths and butterflies. Monarch butterflies are the most well-known migrators. These bright orange butterflies migrate thousands of miles. They even become international travelers. Monarchs from the United States migrate all the way to Mexico! Migrating insects return in the spring when the weather is warm.



**Hibernation:** Some bugs hibernate. Insect hibernation is called **diapause**. Insects in diapause “pause” all activity. A hibernating insect is inactive, but stays alive. Before the winter, insects going into diapause plan ahead. They eat a lot. They put on extra layers of fat. Their body feeds off that extra fat to stay alive.

Bugs need a safe place to hibernate. They seek **shelter** in various places. Many bugs hibernate underneath the soil. They may hibernate under a rock or leaf pile. Some insects, like, ladybugs, hibernate in tree holes. Ladybugs also hibernate indoors. They hide inside building walls.

Not all bugs that seek shelter hibernate. Honeybees huddle together in their hives. Their buzzing and vibrating help them stay warm. Spiders stay active inside our homes.

**Offspring:** Some bugs die in the winter, but their **offspring**, or children, survive. Praying mantises and crickets lay eggs that can stand the cold. The eggs hatch in the spring. Luna moth caterpillars form cocoons. They spend winter inside their cocoons. In spring, they come out from their cocoons as adult moths.

Dragonfly offspring can survive the winter too. Dragonflies aren't born with wings and are called nymphs. Nymphs live in ponds and streams during the winter. They can survive in water that's covered by ice. By spring, nymphs develop wings and become adult dragonflies.

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Monday	Tuesday
<p>Before you read, make a prediction about the text based on the title, pictures, and bold words.</p> <hr/>	<p>What might happen to a cold-blooded insect during winter?</p> <hr/>
<p>What season is dangerous for insects?</p> <hr/>	<p>What insect migrates all the way to Mexico just to avoid cold winters?</p> <hr/>
<p>Why can't a bug eat nectar during winter?</p> <hr/>	<p>During what season do migrating insects return home?</p> <hr/>
<p>Based on the text, what is the meaning of the word <b>migrate</b>?</p> <hr/>	<p>Based on the text, what is the meaning of the word <b>diapause</b>?</p> <hr/>
Wednesday	Thursday
<p>What must a hibernating insect do before winter?</p> <hr/>	<p>Based on the text, what insects lay eggs that can survive the winter?</p> <hr/>
<p>How does extra fat help a hibernating insect?</p> <hr/>	<p>How do luna moth caterpillars survive the winter?</p> <hr/>
<p>What insect sometimes hibernates indoors?</p> <hr/>	<p>How is a nymph different from an adult dragonfly?</p> <hr/>
<p>Based on the text, what is the meaning of the word <b>shelter</b>?</p> <hr/>	<p>Based on the text, what is the meaning of the word <b>offspring</b>?</p> <hr/>

# More of My Thinking

Monday	Tuesday
Wednesday	Thursday

## My Progress

MONDAY	TUESDAY	WEDNESDAY	THURSDAY
____ out of 4 correct I need more help with...	____ out of 4 correct I need more help with...	____ out of 4 correct I need more help with...	____ out of 4 correct I need more help with...

Answer Key - Nonfiction: Context Clues – Q1:4

Monday	Tuesday
<p>Before you read, make a prediction about this text based on the title, pictures, and bold words.</p> <p>Accept all reasonable answers.</p>	<p>What might happen to a cold-blooded insect during winter?</p> <p>They might freeze to death.</p>
<p>What season is dangerous for insects?</p> <p>Winter</p>	<p>What insect migrates all the way to Mexico just to avoid cold winters?</p> <p>Monarch butterflies</p>
<p>Why can't a bug eat nectar during winter?</p> <p>Flowers die and the nectar disappears.</p>	<p>During what season do migrating insects return home?</p> <p>Spring</p>
<p>Based on the text, what is the meaning of the word <b>migrate</b>?</p> <p>when bugs move to warmer places to avoid harsh winters</p>	<p>Based on the text, what is the meaning of the word <b>diapause</b>?</p> <p>when insects hibernate</p>
Wednesday	Thursday
<p>What must a hibernating insect do before winter?</p> <p>Hibernating insect plan ahead and eat a lot.</p>	<p>Based on the text, what insects lay eggs that can survive the winter?</p> <p>praying mantises and crickets</p>
<p>How does extra fat help a hibernating insect?</p> <p>Their body feeds off the extra fat to stay alive during winter.</p>	<p>How do luna moth caterpillars survive the winter?</p> <p>They spend winter inside their cocoons.</p>
<p>What insect sometimes hibernates indoors?</p> <p>ladybugs</p>	<p>How is a nymph different from an adult dragonfly?</p> <p>They don't have wings.</p>
<p>Based on the text, what is the meaning of the word <b>shelter</b>?</p> <p>a place to live</p>	<p>Based on the text, what is the meaning of the word <b>offspring</b>?</p> <p>children</p>