# Grade 3: Unit 2, Lesson 6

**Title:** *Bat Loves the Night*

**Essential Question:** Why is sound important to Bat?

**Week 1**

Questions to ask and discuss while reading:

**How does the illustration on p. 212 help you understand how a bat sleeps?** **Give details in your answer.**

*The illustration shows the bat sleeping upside down with her wings wrapped around her body.*

**Review the facts in smaller type at the bottom of pp. 212-214. Why do you think the author includes these scientific facts separate from Bat’s narrative?**

*The author includes scientific facts at the bottom of the page so that they won’t take away from the story’s sequence of events but still offer informational details to the reader.*

**Look at the picture of the circular lines by the bat’s head on page 216. What do those lines help you imagine?**

*The lines help imagine how the bat’s sound echoes like a flashlight’s beam*.

**What does the picture on p. 223 help you understand about batlings?**

*They are much smaller than adult bats and they can’t fly because they don’t have adult wings. They crowd together to keep warm. They depend on their parents because they can’t survive on their own.*

**What details has the author included to show that Bat is a mammal?**

*Bat has fur and cares for her baby, which drinks her milk for several weeks.*

**What position does Bat sleep in before she wakes up and flies?**

*On p. 212, the author stated that Bat was sleeping upside down.*

**How is Bat able to sleep in this position?**

*On p. 212, the author states that Bat uses her toenails to hang upside down when she sleeps.*

**Is a bat’s wing its arm and hand or its leg and foot?**

*According to the text on page 213, a bat’s wing is its arm and hand.*

**Where does Bat live?**

*Bat lives inside a hole in the roof of a house.*

**How does Bat fly in the dark without bumping into things?**

*Bat uses sound waves through a process called echolocation to fly without bumping into things.*

**What do bats eat? What does Bat catch and eat on p. 219?**

*Bats eat insects, fruit, fish, frogs, and even blood. Bat catches and eats a moth.*

**Why do you think that bats hunt in the air and not on the ground?**

*Bats hunt in the air and not on the ground because their echolocation is more effective in the wider-open spaces that the air provides. The ground could be more dangerous to bats because of potential predators.*

**What does the author mean by “She beams her voice around like a flashlight?”**

*She is comparing the sound waves of the bat to the beam of a flashlight.*

**How are a flashlight and the bat’s sound waves alike?**

*The bat uses sound waves to find objects at night, whereas a person would use a flashlight.*

**What clues does the author give to help you figure out that batlings are baby bats?** *They are hungry and squeak as adult bats return; their feet are oversized; the explanatory text at the bottom of the page states that “babies stay behind in the roost” while mother bats hunt.*

**When is Bat’s bedtime?**

*According to p. 220, Bat’s bedtime is when the sun rises*.

**What is a roost? Where is a roost usually located?**

*According to p. 221, the author stated that a roost is a place where bats sleep in the day. A roost is located in buildings, a cave, trees as long as it is safe and dry.*

**How does Bat know which baby is hers?**

*According to p. 224, Bat knows her baby’s voice and calls to it.*

**Written Response**

Why is sound important to Bat?

**Sample Student Response**

*Note: This is for the teacher’s use only, not for students. The purpose is to show the teacher what the final piece might look like when students have completed their work.*

*Sound is very important to Bat. It is useful in helping her find her way in the dark, and in helping her to locate food.*

*According to the text, “Bats Are the Best Beasts,” the author explains that bats are nocturnal. They use echolocation to fly through the night. Echolocation is when bats make high-pitched squeaks and listen for the sound to echo back. Then, the bats follow the sound signals to locate things in the dark. This helps them avoid bumping into things and in finding food.*

*In the text, “Bat Loves the Night,” the author states that Bat beams her voice around like a flashlight, and the echoes come singing back. This is important because she relies on her ears not her eyes at night. Listening hard, Bat can hear every detail, the smallest twigs to the fluttering leaves.*

*In conclusion, sound is very important to Bat. Sound helps her fly without bumping into objects and helps her locate food when it’s dark.*

**Week 2, Building Knowledge: Extending the Topic**

**Essential Question:** How does echolocation work?

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| Cumulative Activities – The following activities should be completed and updated after reading each resource this week. The purpose of these activities is to capture knowledge building from one resource to the next, and to provide a holistic snapshot of central ideas of the content covered in response to the essential question. *It is recommended that students are required to complete one of the Cumulative Activities (Rolling Knowledge Journal or Rolling Vocabulary Journal) this week.* |

**Rolling Vocabulary: “Sensational Six”**

* Read each resource then determine the 6 words from each text that most exemplify (show best) the central idea of the text.
* Next use your 6 words to write about the most important idea of the text. You should have as many sentences as you do words.
* Continue this activity with EACH selection in the text set.
* After reading all the selections in the Expert Pack, go back and review your words.
* Now select the “Sensational Six” words from **ALL** the word lists.
* Use the “Sensational Six” words to summarize the most important learning from this text set.

**Sample Student Response**

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| **Title** | **Six Vocabulary Words & Sentences** |
| *Bat Loves the Night* | **Words: twitch, swoop, squeak, echoes, echolocation, nocturnal**  **Sentences:**   1. The bat’s ears **twitch** as she awakes**.** 2. Bats **swoop** down to catch insects for food. 3. A bat’s voice is higher than a **squeak.** 4. Bat listens for the **echoes** of her voice to locate things in the dark. 5. **Echolocation** is the method bats use to find their way through the dark. 6. Bats are **nocturnal** because they rest in the day and come out at night to search for food. |
| *Chased by a Bat!* | **Words: dozes, moth, slithers, flutters, dodging, confused**  **Sentences:**   1. The bat **dozes** during the day. 2. A **moth** is a nocturnal insect, and is related to the butterfly. 3. The snake **slithers** quietly towards its prey. 4. The moth **flutters** through the night sky. 5. The moth rapidly **dodges** its predator, the bat. 6. The bat is **confused** when the moth makes the same sounds as her. |
| *How Bats See at Night* | **Words: sound, pitch, chirp, detect, moth, flight**  **Sentences:**   1. Bats make **sounds** during flight which are too high for humans to hear. 2. Bats use high pitched sounds to locate their prey. 3. Bats make many sounds, including squeaks and chirps. 4. Bats listen to their echoes to detect nearby objects. 5. A **moth** is one source of food bats eat during the night. 6. Bats use **flight** as a form of transportation because they have wings. |
| *How Bats help Humans* | **Words: camouflage, rainforest, cavern, pollinate, wing membrane, rodents**  **Sentences:**  1. The bat’s fur acts as **camouflage** with the surrounding environment to protect it from danger.  2. Bats live near **rainforests** where the climate is warm.  3. One type of home bats live in are **caverns.**  4. Bats **pollinate** flowers and help drop seeds for many fruits, plants, and trees.  5. The **wing membrane** allows the bat to go up and down during flight.  6. Some people classify bats as **rodents** because they are said to look like mice. |
| *All About Bats for Kids* | **Words: mammal, active, roost, insectivores, microbats, megabats**  **Sentences:**  1. Bats are **mammals** because they are warm-blooded, have fur, and feed their batlings.  2. Bats are the most active at night when they feed.  3. Bats live in a **roost** which could be in a cave, in an old building, in a tree, or under a bridge.  4. About 70% of bats are **insectivores** because they only feed on insects.  5. **Microbats** are smaller types of bats and range in length from 4cm to 2 inches.  6. **Megabats**, bats that eat fruit or nectar, are larger than microbats because they range in length from 6cm to 2.5 inches |
| *Echolocation Benefits Humans* | **Words: sonar, scattered, clicking, navigate, image, obstacle**  **Sentences:**   1. Sonar is the use of sound waves to find different objects. 2. When the clicking echoed off of many objects it might sound **scattered**. 3. Blind people can use their tongues to make a **clicking** sound as a form of echolocation. 4. Bats use echolocation to **navigate** or find their food. 5. His brain forms an **image** as the clicking echoes back to him. . 6. The man’s use of clicking echolocation helps him to avoid **obstacles** since he cannot see. |
| **Sensational Six**: **Nocturnal, echolocation, mammal, squeak, roost, navigate** | |
| **Summary:**  Bats are **nocturnal** **mammals** that use **echolocation** to **navigate** their surroundings. After a long night of hunting, bats return to their **roosts** and use **squeaks** in order to locate their babies. Blind humans can use echolocation to see like bats do. | |

**Rolling Knowledge**

1. Read each selection in the set, one at a time.
2. After you read *each* resource, stop and think what the big learning was. What did you learn that was new *and important* about the topic from *this* resource?
3. Write, draw, or list what you learned from the text about bats. Then write, draw, or list how this new resource added to what you learned from the last resource(s).

**Sample Student Response**

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| **Write, Draw, or List** | | |
| **Title** | **New and important learning about the topic** | **How does this add to what I learned already?** |
| 1. *Chased by a Bat* | A moth is prey for many creatures such as birds, bats, and snakes. | Bats have to compete for their food with other animals and each other. |
| 1. *How Bats See at Night* | Bats rely solely on their ears and mouth to fly through the night. Scientists conducted an experiment where they plugged the bats’ ears and taped their mouths and the bats couldn’t fly as well. They bumped into things. | Bat used her ears and mouth to fly through the night. She used her ears to listen to her echoes. She used her mouth to make sounds and squeak. |
| 1. *How Bats help Humans* | Bats eat many bugs that bother people and eat farm crops. When bats eat bugs, farmers can use fewer pesticides (harmful chemicals). | Bats eat a ton of bugs and pollinate fruit and flowers. |
| 1. *All About Bats for Kids* | Only a small percentage of bats eat blood. They are called vampire bats. They mainly drink the blood of birds and livestock. | Most bats eat insects, fruit, or nectar. Bats eat a variety of things, depending on the type of bat. |
| 1. *Echolocation Benefits Humans* | Blind people use a type of echolocation called clinking to help them get around and figure out unfamiliar objects. | Humans use sonar/sound just like bats to find objects. |

**Week 2 Written Response** **(optional)**

How does echolocation work?

**Sample Student Response**

*Note: This is for the teacher’s use only, not for students. The purpose is to show the teacher what the final piece might look like when students have completed their work.*

*Echolocation works to locate objects by reflecting sound. Bats use echolocation to glide through the night skies and locate their prey. According to the text, the author explains that echolocation helps bats navigate and find food. They send out sound waves from their mouths. When the sound waves hit an object, they produce echoes. Bats can identify an object by the sound produced. Echolocation is essential for the survival of bats.*

# Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_

**Title:** *Bat Loves the Night*

**Essential Question:** Why is sound important to Bat?

*This is a note taking form for you to collect thoughts and evidence during your reading and class discussions. You can use this when you write your essay later.*

How does the illustration help you understand how a bat sleeps? Give details in your answer. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review the facts in smaller type at the bottom of pages 212-214. Why do you think the author includes these scientific facts separate from Bat’s narrative? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Look at the picture of the circular lines by the bat’s head on page 216. What do those lines help you imagine? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What does the picture on page 223 help you understand about batlings? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What details has the author included to show that Bat is a mammal? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What position does Bat sleep in before she wakes up and flies? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How is Bat able to sleep in this position? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is a bat’s wing its arm and hand or its leg and foot? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where does Bat live? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How does Bat fly in the dark without bumping into things? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What do bats eat? What does Bat catch and eat on p. 219? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why do you think that bats hunt in the air and not on the ground? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What does the author mean by “She beams her voice around like a flashlight?” \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How are a flashlight and the bat’s sound waves alike? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What clues does the author give to help you figure out that batlings are baby bats? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

When is Bat’s bedtime? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is a roost? Where is a roost usually located? When can baby bats leave the roost to find their own food? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How does Bat know which baby is hers? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Week 1 Written Response**

Why is sound important to Bat?

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**Building Knowledge: Extending the Topic**

**Essential Question:** How does echolocation work?

**Rolling Vocabulary: “Sensational Six”**

* Read each resource then determine the 6 words from each text that most exemplify (show best) the central idea of the text.
* Next use your 6 words to write about the most important idea of the text. You should have as many sentences as you do words.
* Continue this activity with EACH selection in the text set.
* After reading all the selections in the Expert Pack, go back and review your words.
* Now select the “Sensational Six” words from **ALL** the word lists.
* Use the “Sensational Six” words to summarize the most important learning from this text set.

|  |  |
| --- | --- |
| **Title** | **Six Vocabulary Words & Sentences** |
| *Bat Loves the Night* | Words:  Sentences:  1.  2.  3.  4.  5.  6. |
| *Chased by a Bat!* | Words:  Sentences:  1.  2.  3.  4.  5.  6. |
| *How Bats See at Night* | Words:  Sentences:  1.  2.  3.  4.  5.  6. |
| *How Bats Help Humans* | Words:  Sentences:  1.  2.  3.  4.  5.  6. |
| *All About Bats for Kids* | Words:  Sentences:  1.  2.  3.  4.  5.  6. |
| *Echolocation Benefits Humans* | Words:  Sentences:  1.  2.  3.  4.  5.  6. |
| **Sensational Six:** | |
| **Summary:** | |

**Rolling Knowledge Journal**

1. Read each selection in the set, one at a time.
2. After you read *each* resource, stop and think what the big learning was. What did you learn that was new *and important* about the topic from *this* resource? Write, draw, or list what you learned from the text about bats.
3. Then write, draw, or list how this new resource added to what you learned from the last resource(s).

|  |  |  |
| --- | --- | --- |
| **Write, Draw, or List** | | |
| **Title** | **New and important learning**  **about the topic** | **How does this resource add to what I learned already?** |
| 1. *Chased by a Bat* |  |  |
| 1. *How Bats See at Night* |  |  |
| 1. *How Bats Help Humans* |  |  |
| 1. *All About Bats for Kids* |  |  |
| 1. *Echolocation Benefits Humans* |  |  |

**Week 2 Written Response (optional)**

How does echolocation work?

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