

Finger Snapping Echolocation Activity

We can't use echolocation to determine the size and texture of an object the way bats can, but our ears do use sound waves to tell which direction a sound is coming from and approximately how far away it is.

Question: Can you tell which direction a sound is coming from without using your eyes?

Instructions: One player will sit in a chair on on the floor (blindfolded). Then one or more players will snap their fingers or clap their hands. The blindfolded player will point to the where the sound came from. The players should make their sounds from all different locations, but only one at a time.

Can you identify the direction of a sound without using your eyes to see what was happening?



Amazing Bat Facts

- Bats live all around the world. You can find them in nearly every part of our planet except extreme deserts and the cold regions near the earth's poles.
- There are more than 1,400 species of bats.
- Bats live in large groups called colonies.
- Bats are mammals. They are the only flying mammals.
- We depend on some types of bats to pollinate plants such as bananas, mangoes, guavas, and coconuts (the plant that chocolate comes from). Can you imagine life with no chocolate?
- Each night, a bat can eat its body weight in insects. They eat mosquitoes but they also eat other insects like moths and beetles. Some bats are fruit eaters.
- Bat droppings are called guano. Bat guano was very useful during the American Civil War. The nitrate in the guano were needed for making gunpowder.
- Most bats hang upside-down. Their feet are actually relaxed when they are in a clutched position.
- Bat predators include owls, hawks, and snakes. However, disease is also a major problem for bats. Many bats die from white nose syndrome, which is a fungus.



- The largest bats are the species reaching a 5-6 ft wingspan.
- Bats use echolocation around at night.



Bat Echolocation

Bats have an amazing way of "seeing" in the dark. You may have heard the term "blind as a bat," but bats are not actually blind at all! However, they do use echolocation instead of sight to find their prey.

When a bat is hunting for insects, it sends out a series of high-pitched sounds. The sound waves bounce back to the bat, which tells it the location, size, and texture of the insect. Isn't that amazing?

We can hear bats make some noises, but when they are using echolocation, the sound frequencies are too high for us to hear.

Ball Echolocation Activity

Question: Can you roll a ball to find out how far away the wall is?

Supplies Needed: A room with a wall, a ball, a blindfold, and a partner.

Instructions: Blindfold one player. Their partner will then walk them around a little so that they don't know where they are or how far they are from the wall. Then the partner will direct them to sit down facing the wall.

The goal is for the player to move close enough to the wall that they can reach out and touch it. First, they will roll the ball and listen for when it hits the wall. Their partner should give it back to them if it doesn't roll back to their hand. Based on the sound, the player will move closer to the wall. Then they should roll the ball again and listen to the sound.



When the player thinks they are close enough to the wall to touch it, they should reach out their hand. If they can't feel the wall, they can roll the ball again and listen. Repeat this.



How Big are Bats?

A weight and measurement activity



A **Kitt's Hoop-Nosed Bat** (also called the Bumblebee Bat) weighs as much as a penny. Only 2 grams! Find a penny and hold it in your hand. Can you imagine a bat this heavy?

A **Big Brown Bat** weighs 0.8 oz, or about 23 grams. This is the same weight as a giant rectangular school eraser. Hold an eraser in your hand.

Even though the Big Brown Bat is so light, its wingspan is about 13 inches, or 33 centimeters. Find a ruler and measure that length.

A **Little Brown Bat** weighs about 0.5 ounces, or 14 grams. This is the weight of an unsharpened glue stick. Hold a glue stick in your hand to feel this weight.

The **Hairy Bat** lives all over North America. It weighs 1 ounce, or 27 grams. This is the mass of a Hot Wheels car. Find a car and see how heavy it feels.

The **Golden-Crowned Flying Fox** is one of the largest types of bat. It eats fruit and lives in the Philippines. It can have a wingspan up to 5 feet or 1.5 meters! Measure that length. It might be fun to do this outside and draw a life size Flying Fox with sidewalk chalk. Or you can use masking tape to make a 5 ft. line on the floor or on a wall. Is your wingspan greater than or less than 5 ft? Spread out your arms and see!

The **Free-Tailed Bat** weighs about 2.6 pounds, or 1.1 kilograms. This is the weight of a 4th or 5th grade math book. How much does this bat weigh?

Educators Activity About Bats

Rosina Ehmann



Educators Activity About Bats:

Educators Activity About Bats: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Educators Activity About Bats : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Educators Activity About Bats

1. Understanding the eBook Educators Activity About Bats
 - The Rise of Digital Reading Educators Activity About Bats
 - Advantages of eBooks Over Traditional Books
2. Identifying Educators Activity About Bats
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Educators Activity About Bats
 - User-Friendly Interface
4. Exploring eBook Recommendations from Educators Activity About Bats
 - Personalized Recommendations
 - Educators Activity About Bats User Reviews and Ratings
 - Educators Activity About Bats and Bestseller Lists
5. Accessing Educators Activity About Bats Free and Paid eBooks
 - Educators Activity About Bats Public Domain eBooks
 - Educators Activity About Bats eBook Subscription Services
 - Educators Activity About Bats Budget-Friendly Options
6. Navigating Educators Activity About Bats eBook Formats
 - ePub, PDF, MOBI, and More
 - Educators Activity About Bats Compatibility with Devices
 - Educators Activity About Bats Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Educators Activity About Bats
 - Highlighting and Note-Taking Educators Activity About Bats
 - Interactive Elements Educators Activity About Bats
8. Staying Engaged with Educators Activity About Bats

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Educators Activity About Bats
- 9. Balancing eBooks and Physical Books Educators Activity About Bats
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Educators Activity About Bats
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Educators Activity About Bats
 - Setting Reading Goals Educators Activity About Bats
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Educators Activity About Bats
 - Fact-Checking eBook Content of Educators Activity About Bats
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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