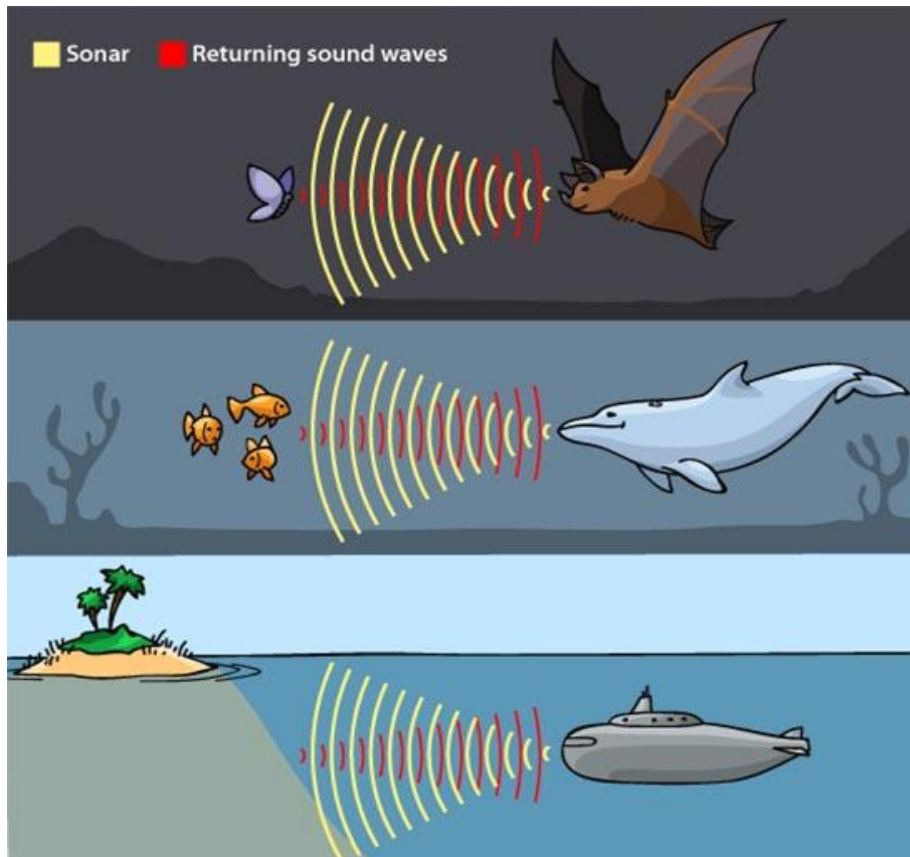


Inquiry Question

Can you listen to sounds and figure out where they are coming from like a bat?

Name: _____ Date: _____



Bats and other animals like whales and dolphins use echolocation to help them “see” in their environment.

They emit a sound that bounces off other objects. By determining the length of time, it takes for sound to return to their ears, the animal can figure out where they are going.

In this experiment you will try detecting where sound is coming from just like bats.

General Instructions

Try this outside or in a quiet space and see which one makes hearing easier

Materials you'll need:

- Blind Fold
- Friend

Hints and Ideas:

1. Some animals rely on sound to help them find their food and to navigate. One of you will be a bat and will put on the blindfold. You will only use your hearing to figure out where your partner is.
2. The other person will quietly stand near the blindfolded bat and make a noise by snapping or clapping your hands or by making a chirping sound. The bat will try to guess where the sound is coming from.
3. Try making sounds from a few different locations. Keep track of the bat's guesses – how many did they get right?
4. Switch partners and see how they do.

Project Submission

Use the attached worksheet to record your result. Then take a picture or scan and upload it.

How easy or hard is it to figure out where a sound is coming from?

Name: _____

Location	Did you guess it or not?