

## Marine Mammal Echolocation!

Dolphins and some whales use sounds to locate their food and surroundings. When they send out sounds, they can not only hear the direction of the sounds, but also how far away the target is. It takes time for them to bounce back and the longer it takes for them to bounce back, the farther away the target is. This usage of sound to find things is called **echolocation**.



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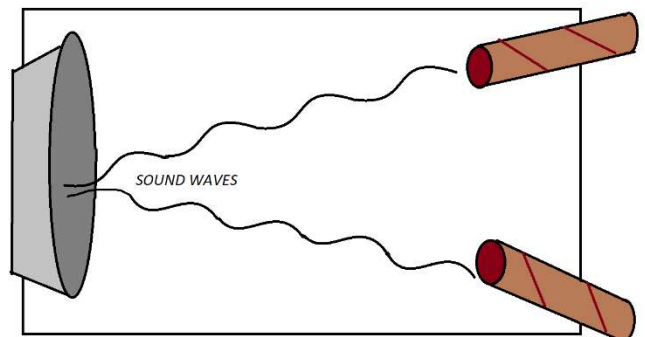


Let's demonstrate how this works with a neat craft!

Activity: Echolocate like a dolphin!

Materials:

- 1 dolphin partner
- 2 paper towel tubes
- 1 pie tin
- 1 sheet of paper
- Tape



Directions:

1. 1 dolphin partner will be the **sound emitter** and the other dolphin partner will be the **sound listener**. Taking turns is encouraged to learn from both sides!
2. Use tape to secure the tubes and tin on the edges of the paper as pictured above.
3. From one tube, have the **sound emitter** send a noise down their tube while the **sound listener** has their ear pressed by their tube to hear.

The sound should be fairly clear and show how sound bounces off of objects!