

Dolphins are actually whales!

There are two types of whales:

Toothed Whales (Odontoceti)

and

Baleen Whales (Mysticeti)

Orca



Gray Whale



Dolphin



Humpback Whale



Sperm Whale



Blue Whale



1. Predict whether you think toothed whales, baleen whales, or both types use echolocation. Circle your choice.

Toothed

Baleen

Both

2. Research the difference between toothed and baleen whales sounds. Fill in the chart below with at least three facts in each category.

*Use this website to listen to different Cetacean sounds and calls-
<http://voicesinthesea.ucsd.edu/>

<p style="text-align: center;">Toothed Whales Odontoceti</p>	<p style="text-align: center;">Baleen Whales Mysticeti</p>

3. Echolocation is used by toothed whales as a way to communicate with one another, to find food, and to determine what is in their immediate surroundings. Although baleen whales do not use echolocation, they heavily depend on sounds to find mates and move safely around the oceans. Using sound is critical for the survival of these animals.

- a. What are a few ways humans are affecting these animals' ability to use sound effectively? List at least three.

- b. How do you think this is affecting the survival of different whale species?

- c. Design a solution to help protect whale species from one of the affects you listed in part A. Use the engineering design process to outline your solution step by step. Your solution can be in any form (ie. An engineered piece of equipment or something more theoretical in the form of government regulations, marketing campaigns, etc.).

