# Whale Classification & Food Chains

STUDENT ACTIVITY

There are two different groups of whales, those that have teeth (called the **toothed whales**), and those that have no teeth (called the **baleen whales**).







### Look Out for These Keywords...

Adaptation - a feature of the body that helps an animal survive in its environment

**Blubber -** a thick layer of fat under the skin

Crustaceans - large group of animals which includes crabs, prawns and shrimps

**Predator -** an animal that eats other animals

**Prey** - an animal that is hunted, caught and eaten by another animal



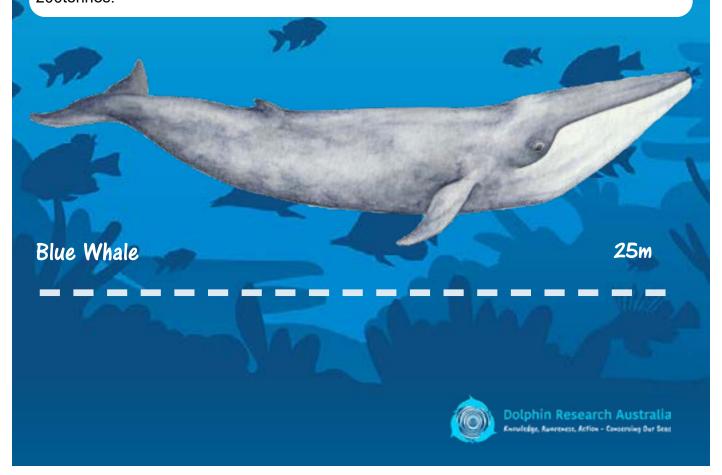
### Baleen Whales

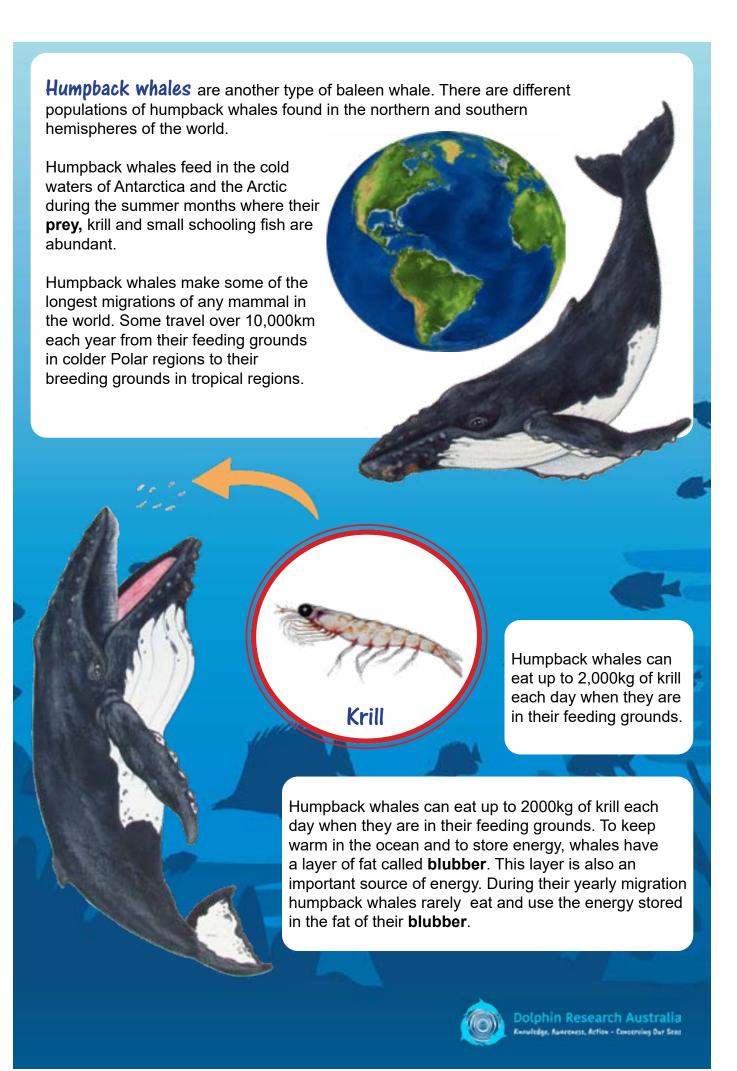
Baleen whales are **predators** that sieve zooplankton including tiny **crustaceans** such as krill, and small fish from the water using comb-like structures called baleen that are attached to the upper jaw.

As they feed, baleen whales gulp large amounts of water and **prey.** Using their tongues, they push out the water leaving behind krill and fish trapped in their baleen.



There are 15 species of baleen whales found throughout the world. These include the blue whale, the largest animal to have ever lived. Blue whales grow to 25m and can weigh up to 200tonnes.

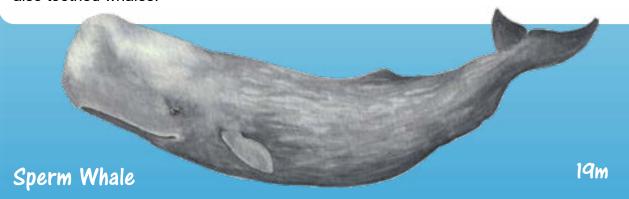




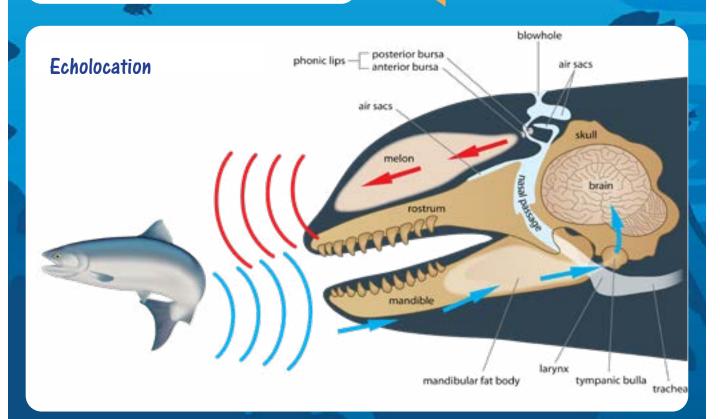
### **Toothed Whales**

Toothed whales are **predators** that use their teeth to hunt larger **prey** such as squid and fish. Toothed whales live in all oceans of the world. Some even live in rivers.

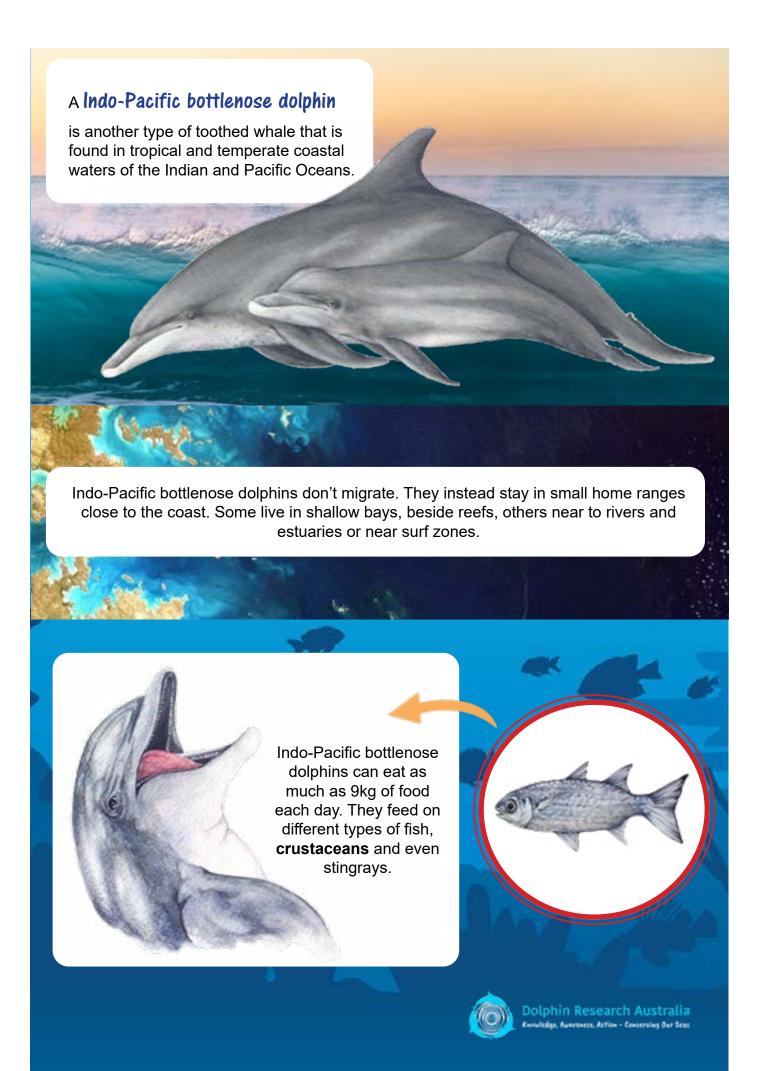
There are 65 different types of toothed whales. The largest toothed whale is the sperm whale that grows to 19m and can weigh up to 41 tonnes. Dolphins and porpoises are also toothed whales.



Toothed whales have a special **adaptation** called echolocation. By producing a series of clicks and interpreting the echoes that bounce off objects the toothed whales can find the location of their **prey**.







# Food Chains

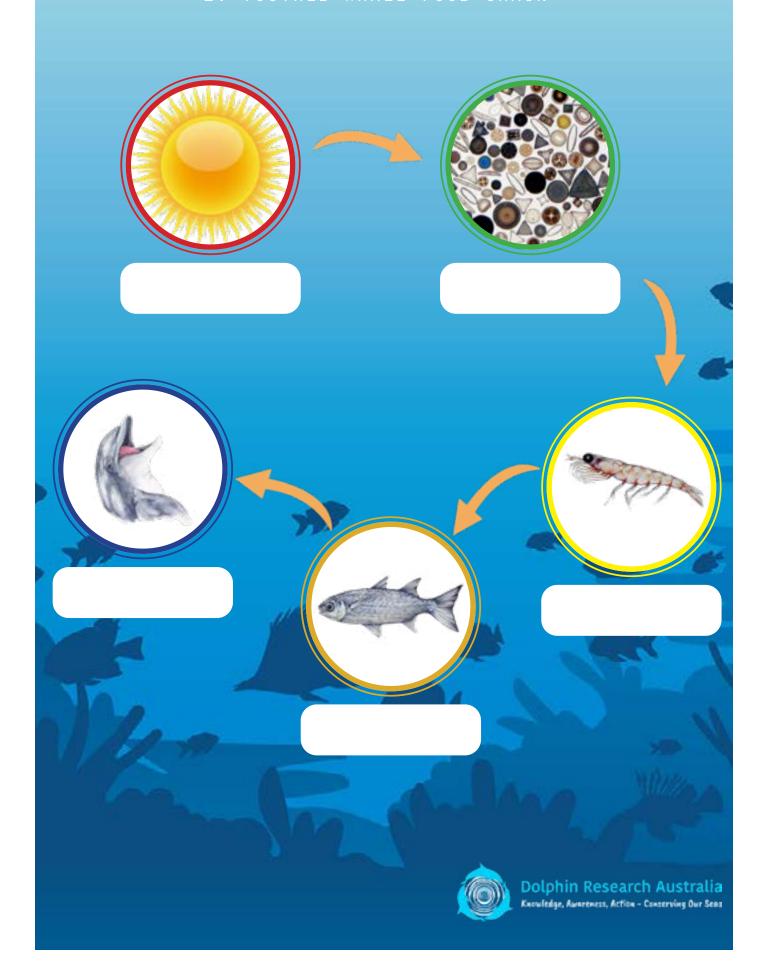
Plants use light energy from the sun to make their own food and are always at the start of a food chain. Phytoplankton are microscopic plants and plant-like organisms that drift in the oceans and are eaten by tiny animals called zooplankton. Zooplankton are eaten by small fish, larger fish and mammals. Krill are an example of zooplankton.

Complete the two food chains by using the words in the box below.

sun phytoplankton zooplankton fish humpback whale bottlenose dolphin

# BALEEN WHALE FOOD CHAIN

### 2. TOOTHED WHALE FOOD CHAIN



# Questions

1. Why are plants the most important part of a food chain?

2. Using the food chains for the baleen whales and toothed whales what changes would occur to other species if the zooplankton were to disappear?

3. Why is it important that all species in a food chain have a healthy environment to live in?

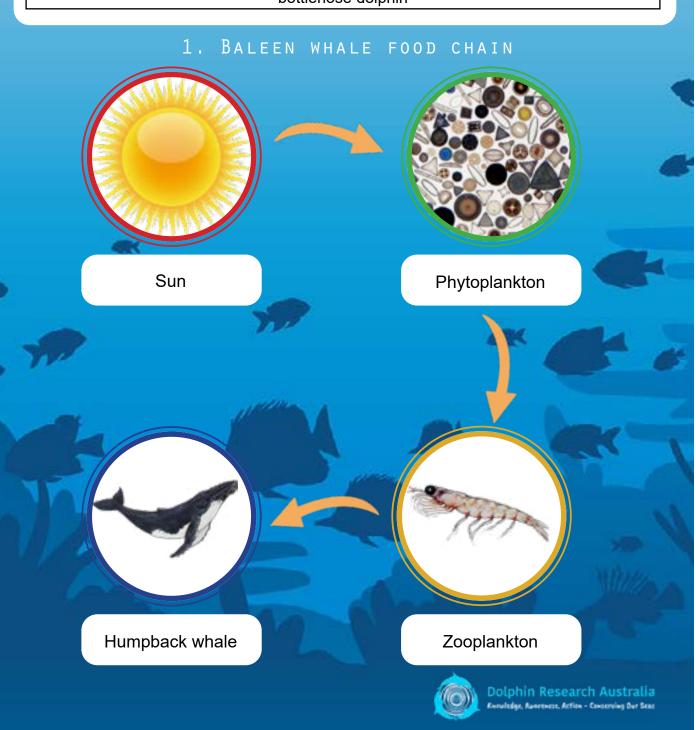


# Food Chains

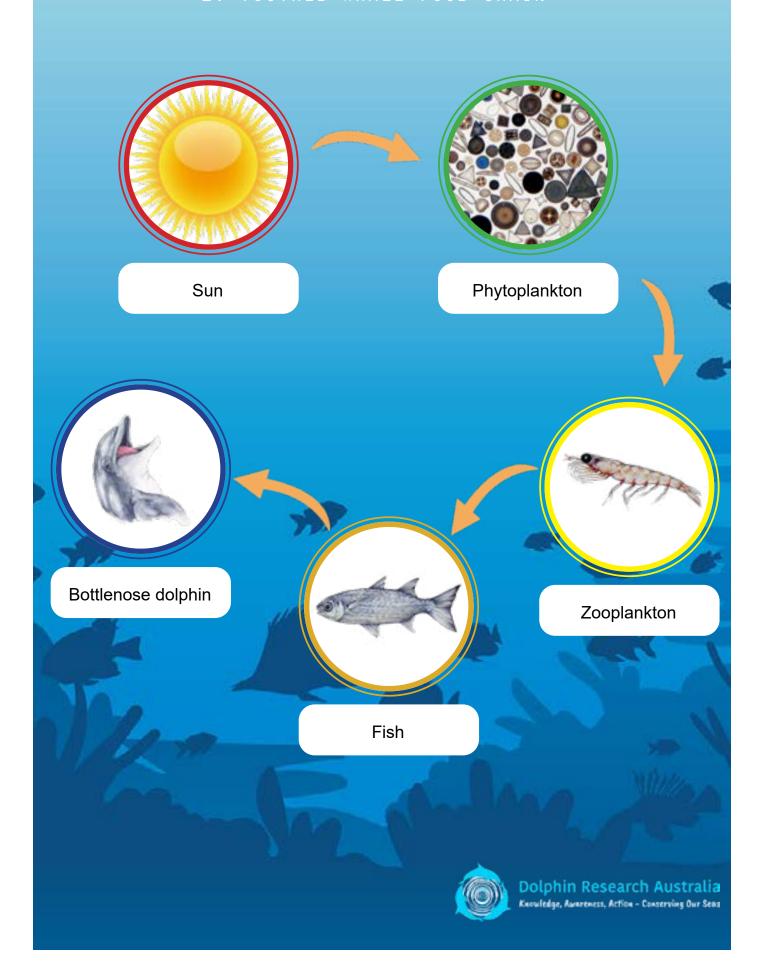
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Complete the two food chains by using the words in the box below.

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### 2. TOOTHED WHALE FOOD CHAIN



## Questions

1. Why are plants the most important part of a food chain?

Answer: Plants use light energy to make their own food. Animals cannot make their own energy and must eat plants or animals that eat plants to survive.

2. Using the food chains for the baleen whales and toothed whales what changes would occur to other species if the zooplankton were to disappear?

Answer: If the zooplankton were to disappear in the baleen whale food chain, the humpback Whale would not have any food to survive. If the zooplankton were to disappear in the toothed whale food chain then the fish would not have any food to survive. If the fish disappeared the dolphin would also not survive.

3. Why is it important that all species in a food chain have a healthy environment to live in?

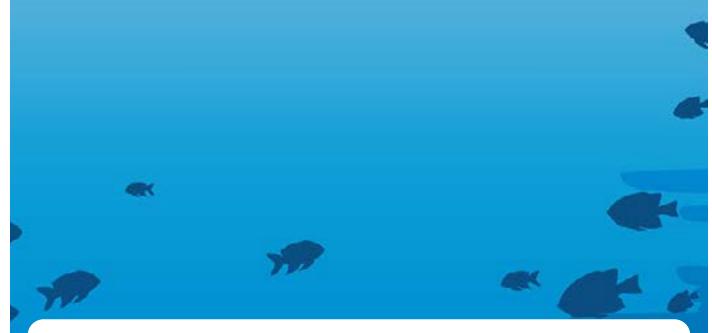
Answer: A healthy environment is important for the survival of all the species in a food chain. All plants and animals require clean air, water, and soil to survive. When a species dies out or becomes low in numbers, many other species in a food chain cannot survive.



### Additional resources

Learn about different whale and dolphin species: <a href="https://www.dolphinresearchaustralia.org/learn-about-dolphin-whales/dolphin-whale-species-fact-files/">https://www.dolphinresearchaustralia.org/learn-about-dolphin-whale-species-fact-files/</a>

Download more fun activities, fact sheets and more: <a href="https://www.dolphinresearchaustralia.org/fun-activities-downloads/">https://www.dolphinresearchaustralia.org/fun-activities-downloads/</a>



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