



Teacher Guide

Food Web Activity

Once students have shared their jigsaw findings, you can use this activity to help expand their understanding of how important krill is to the food web and Antarctic ecosystem. The goal is that students see the correlation between the number of krill and their importance to other species.

1. If students need a refresher on food webs, here are some of the basic points:
 - a. Food webs show the energy flow between species.
 - b. Food webs show the connection between species in an ecosystem.
 - c. The arrows on a food web show the direction that which energy flows.
 - d. A single species can connect to more than one other species
2. You can choose to do this together as a class or independently based on your students and the time you have. There is an attached worksheet with the start of a food web if you would like to complete it individually.
3. Since krill is the main focus of this unit, we will use it as the starting point for our food web. From there, students can use any of the species from their jigsaw to complete the food web. You can have students draw their species, write out their names only, or complete it digitally with graphics.
4. Answers will vary once students start to work their way up the energy channels. Here are a few examples to help you get started:
 - a. Krill are an energy source for: Gentoo penguins, Humpback whales, Kelp gulls, some seal species, etc.
 - b. From there, the student connections will likely vary among the other species in the video (leopard seals, king penguins, killer whales, albatross, elephant seals, polar bears, ringed seals, narwhals, etc.)