

Science

Class 4

Food Webs

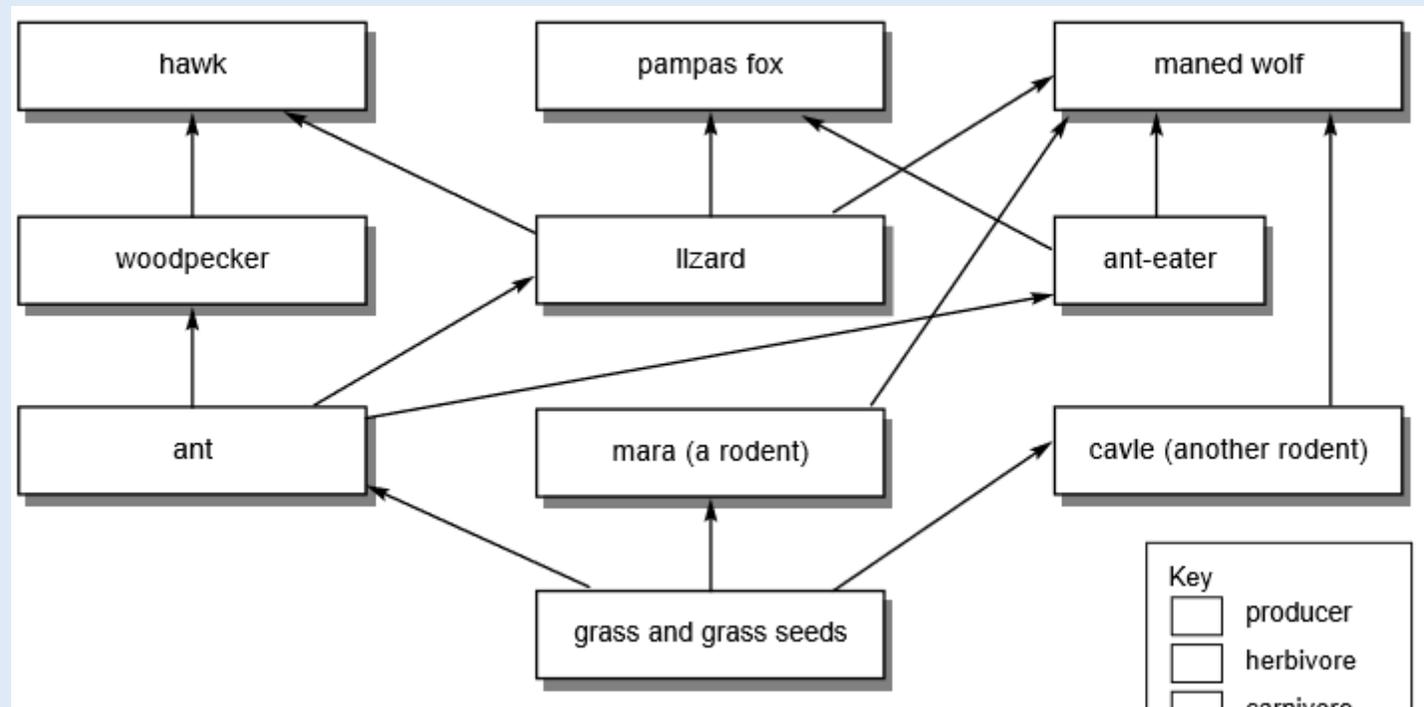
Monday 1st March 2021

Lesson Objective: To understand what a food web is and what information can be learnt from one.

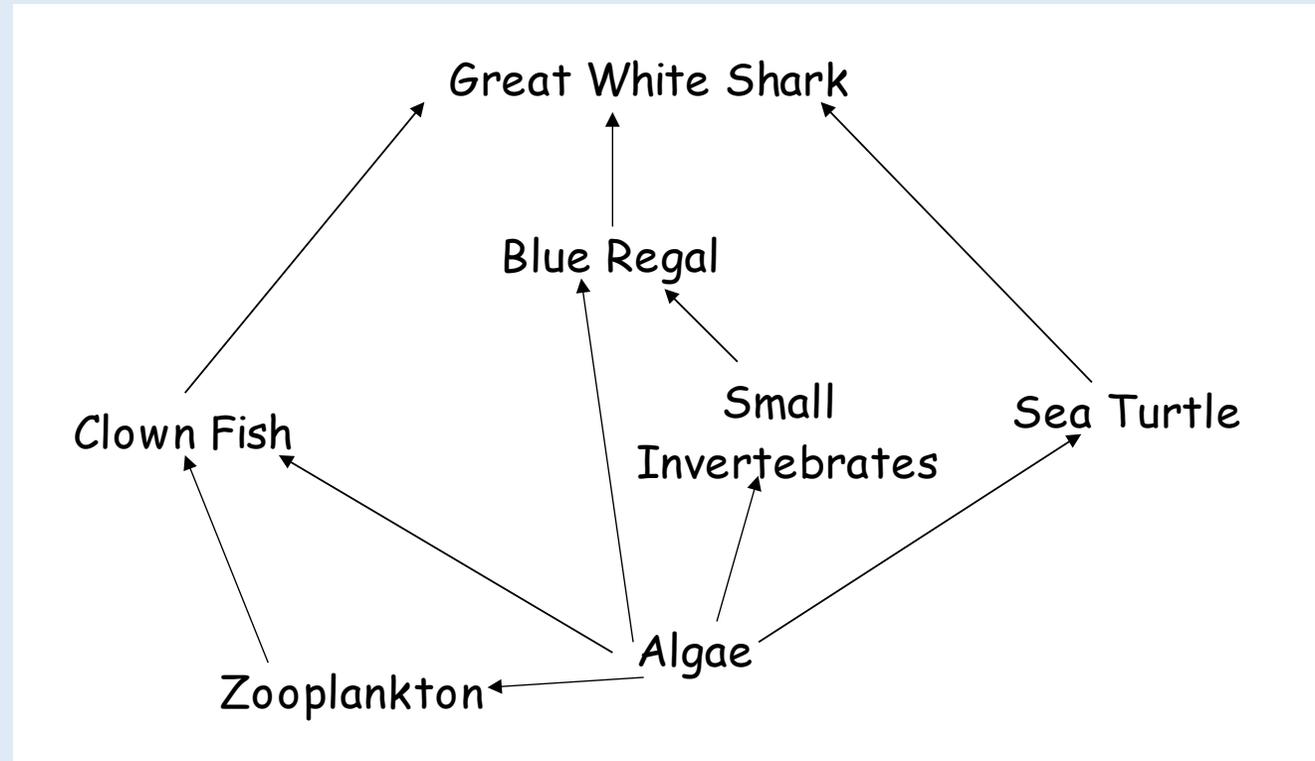
- ***Producers*** - organisms which can make their own energy from carbon dioxide and water using sunlight for energy (plants)
- ***Primary consumer*** - organisms which eat producers (herbivores)
- ***Secondary consumers*** - organisms which eat primary consumers (carnivores)
- ***Tertiary consumers*** - organisms which eat secondary consumers (carnivores)

Food webs

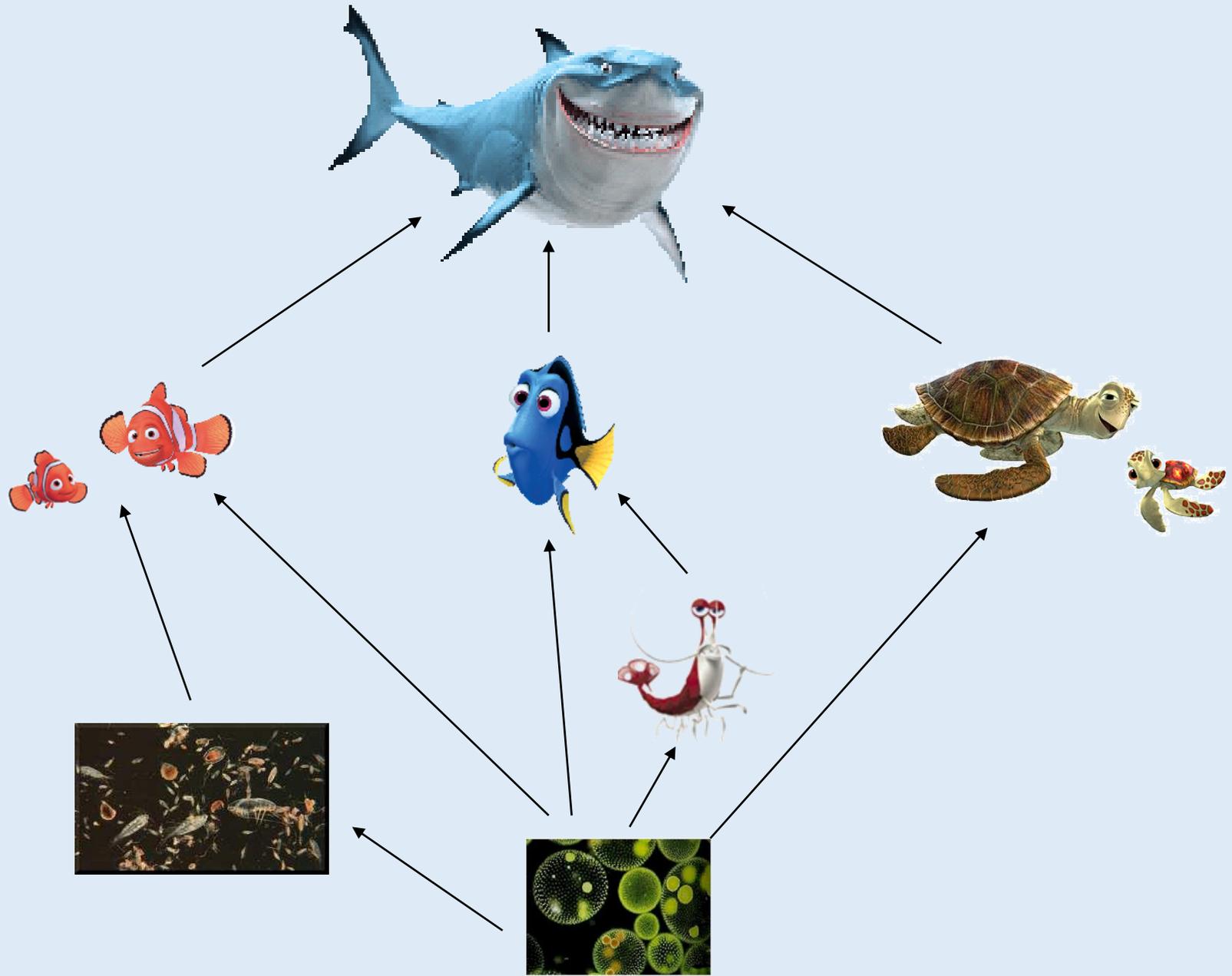
The Food Web is a series of food chains all connected to each other. Plants are eaten by a variety of **consumer** animals and then those animals may be eaten by a variety of different **carnivores**.



Food Web

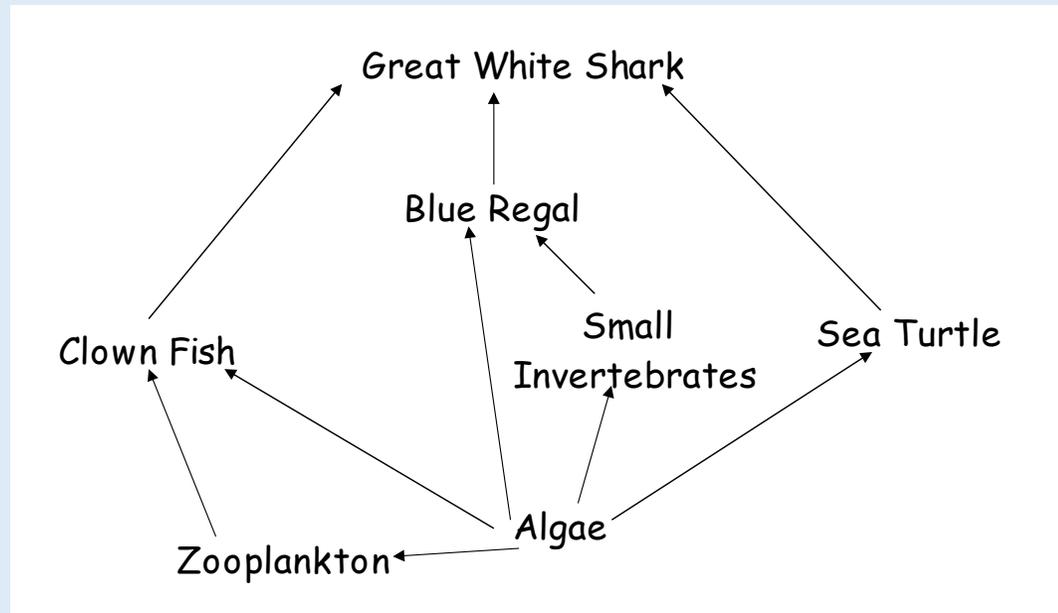


1. Write down two food chains from this food web.



Questions

1. What will happen to the number of clown fish if the sharks become vegetarian?
2. What effect will this have on the number of zooplankton?
3. What will happen to the Blue Regal fish if a disease wipes out the small invertebrates.



Pyramids of Number

- Food webs show the feeding relationships in a community. But they do not tell us *how many* living organisms are involved.
- It takes many plants to feed a herbivore, and many herbivores to feed one carnivore.

Task

Your task today in Science is to create a food web using the pictures from the Antarctica. You need to cut the pictures out and then have a play around with where they could go. Once you think you have them in the correct position draw the arrows. Remember the arrows show the travel of energy so make sure you draw them in the correct direction.

Extension

Try to draw food web using living things from a rainforest. Think about how you can present this. Try to be creative. Maybe you could use technology to support you!

Task

Red Task - I can cut and stick the pictures constructing a food web for the Antarctica.

Yellow Task - I can create a food web for the Antarctica and can use vocabulary learnt in the previous lesson to label the different living things.

Green Task - I can create a food web for the Antarctica, label the different living things with the correct vocabulary and can explain the impact that would be had on the food web if a disease wiped out the population of one of the living things.