

Plankton Wars

Background Information:

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What is one similarity and one difference between Phytoplankton and Zooplankton?

Using what you have just learned about plankton you will now participate in the....PLANKTON WARS!

Materials:

Zip-lock bags Yarn

Pipe cleaners Aluminum Foil

Toothpicks Large plastic container to hold water

Straws Ruler

Timer Other materials as needed

Your Task:

- 1. You will be creating your own plankton and will battle for survival in the sunlight zone.
- 2. Your goal is to create a plankton that can stay afloat at the surface but can eventually submerge and sink into the water. (Note: If your plankton cannot sink, the sun will dry the organism causing it to die)
- 3. You can only use the materials given to you in the plastic bag.
- 4. Once you have created your plankton fill in the table below.

Is your plankton Zooplankton or Phytoplankton?	Name of Plankton	Length of Plankton	Width of Plankton	Height of Plankton

Before Plankton Wars

1.	How long do you think your plankton will stay afloat in the sunlight zone?
2.	What did you add to your plankton to help it stay afloat?
	Plankton Wars
3.	How long did your plankton stay in the sunlight zone?
4.	What do all plankton need to help them stay alive?
5.	What would you change about your plankton if you could redothe challenge?

Plankton Wars ANSWER KEY

Background Information:

Most living things found in the ocean are found in the SUNLIGHT zone. Plankton are organisms that FLOAT at the surface of the water. They move with the ocean CURRENTS and TIDES. These organisms can be very, very SMALL or they can be LARGE.

Phytoplankton are one type of PLANKTON. *Phyto-* comes from a Greek word meaning PLANT. Phytoplankton are drifting or wandering plants. These organisms are single-celled and normally microscopic. Like land plants, phytoplankton use PHOTOSYNTHESIS to make their own food.

Zooplankton are the ANIMAL plankton. They cannot create their own FOOD. They feed on phytoplankton and each other. Many of these type of plankton have long appendages (limbs) with attached hairs to help them grab prey and stay afloat. They can also store fats and oils in their bodies to help them float.

What is one similarity and one difference between Phytoplankton and Zooplankton?