



The word "plankton" comes from the Greek word "planktos" which means to drift or wander – which is exactly what plankton do! Plankton are usually so small that you can only see them with a microscope or magnifying glass – but despite their small size, they play a huge role in the marine ecosystem. Plankton come in all shapes and sizes and can be divided into two main groups: **phytoplankton** and **zooplankton**.

<u>Phytoplankton</u> = plant plankton – use photosynthesis to convert sunlight and carbon dioxide (CO2) into food and oxygen (O2).

Phytoplankton are particularly important to supporting life in Earth's ocean - they are the
primary producers in both freshwater and marine food webs. They make food through the
process of photosynthesis and then become food for everything from zooplankton to herring to
whales. Phytoplankton are also responsible for producing most of the oxygen in Earth's
atmosphere.

Some zooplankton, such as copepods, will remain plankton their entire lives – **holoplankton** (holo = whole). Other zooplankton, such as barnacle larva, are plankton for only part of their

**Zooplankton** = animal plankton – feed on phytoplankton and other zooplankton.

4. Why are phytoplankton so important in marine ecosystems?

responsible for producing most of the oxygen in Earth's atmosphere.

	considered to be zooplankton as well.
Use the information above to fill in the blanks and answer the following questions:	
1.	Where does the word "plankton" come from?
2.	The two main types of plankton are <u>Phytoplankton</u> and <u>Zooplankton</u> .
3.	Some plankton spend their entire lives in planktonic form, these are known as

Phytoplankton are the primary producers in both freshwater and marine food webs and they provide. They serve as food for everything from zooplankton to herring to whales. Phytoplankton are also

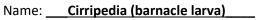
5. What do zooplankton feed on?

Phytoplankton and other zooplankton

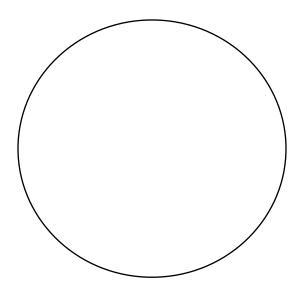


Use the Plankton ID Guide to identify the plankton in the photos below. Draw a scientific illustration of the plankton in the circle next to each photo.





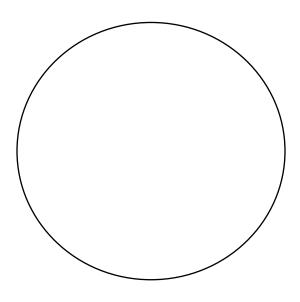
Phytoplankton or **Zooplankton**?



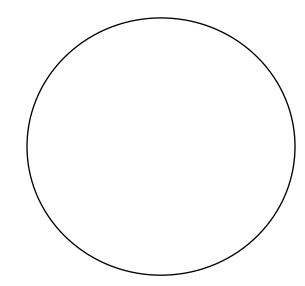


Name: Copepods

Phytoplankton or **Zooplankton**?



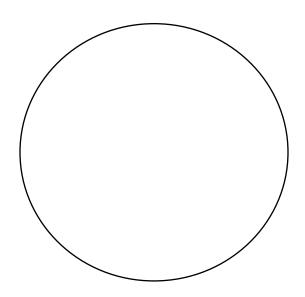




Name: Chaetorceros

**Phytoplankton** or Zooplankton?





Name: Polychaete worm larva

Phytoplankton or **Zooplankton**?