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Our Animal ambassadors, Frida and Pingo, are going to help you learn all about sustainable fishing, and bycatch!

Fishing for the Future

Sustainable fishing helps ensure there will be populations of ocean and freshwater wildlife for the future. Demand for seafood and advances in technology have led to fishing practices that are depleting populations around the world. Fishers remove more than 170 billion pounds of wildlife from the sea each year. Scientists fear that continuing to fish at this rate may soon result in a collapse of the world's fisheries.

Record your group's catch and the amount of fish left in the ocean after each season

Season	Catch	Fish Left in the Ocean
1		
2		

Briefly describe the health of your fishery

Season	Catch	Fish Left in the Ocean
3		
4		

Briefly describe the health of your fishery now

Fish Frenzy

Unscramble the words to reveal sustainable fishing facts!

1. _____
guarantees there will be
populations of ocean and
freshwater wildlife for the future.
a. tabussnelia ghfisn

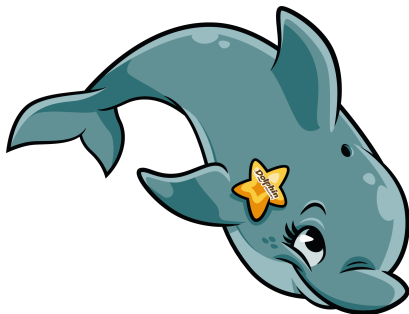


2. Taking wildlife from the sea
faster than populations can
reproduce is known as
_____.
a. rgosinvifhe

3. Fishing for specific species during certain times of the
year allows fish stocks to _____ themselves.
a. nipreelsh

4. Rod-and-reel fishing results in less _____ because
non-targeted species can be released immediately.
a. ychbact

5. Many individuals, communities, and nations continue to
rely on fish and other aquatic life as a _____
_____.
a. oofd cesuro



6. One of the best things we can do to
help is _____ ourselves about
where our fish comes from and how it is
caught.
a. cteduae

Bycatch Experiment

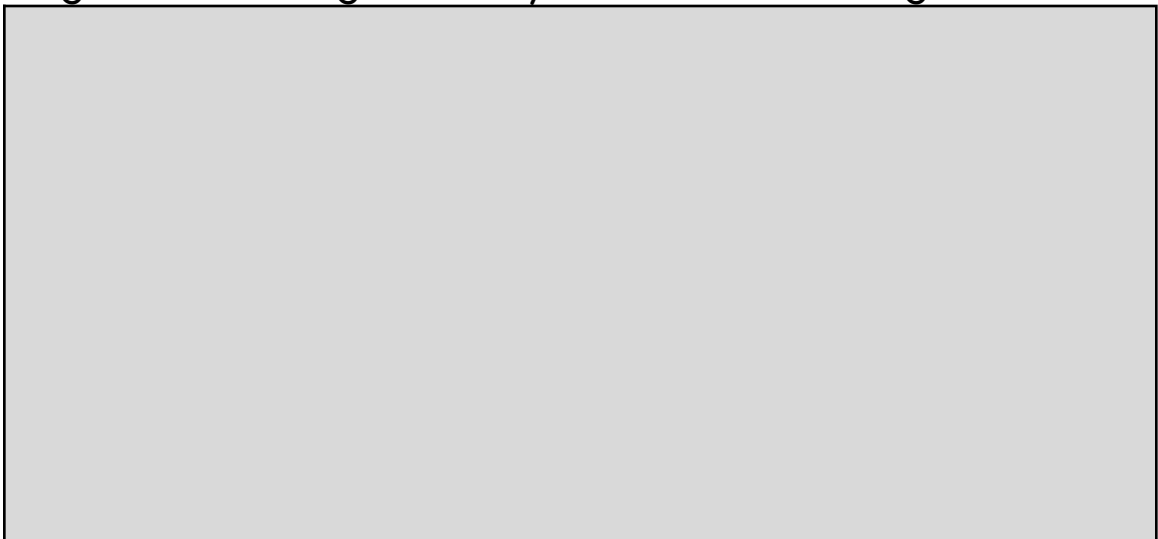
Bycatch is the accidental capture of non-targeted species such as dolphins, sea turtles and sharks. Thousands of miles of nets and lines are set in the world's oceans each day. Modern fishing gear is very efficient at catching the desired fish species as well as anything else in its path.

Perform the bycatch experiment, write down your results, and answer the following questions:

1. Which "fishing net" did you choose? _____
2. Which "fish" species are you targeting? _____
3. Fill in the following table as you complete the experiment

Trial	Number of targeted fish caught	Number of bycatch animals caught	Total number of animals caught
1			
2			
3			

4. Create a bar graph below showing the difference between targeted fish caught and bycatch animals caught



5. Out of the three trials, how many times did you only catch your targeted species? _____
6. Did you have more bycatch or more targeted species in your trials? _____
7. Knowing what you know now, would you choose a different "fishing net"? If so, which one?

8. Name one way we can fish sustainably

9. Try to come up with a net design that will reduce bycatch



Animal Observations

Choose one animal at Marineland on which to do a physical and behavioral observation. You may pick any animal you'd like, but you must stick with that individual, so be sure you've identified a distinguishing characteristic about it that will help you keep it in view, even if it lives with a group of other animals that look just like it.

Animal: _____

Draw your animal here:

List 5 physical characteristics/adaptations (body shape, coloration, number of limbs, etc):

What do these adaptations help the animal do? (Avoid predators, catch prey, camouflage, etc)



Observe your animal's behavior for three minutes. Fill out the following behavioral observation chart. Put a tally mark next to the behavior every time you see it. If you see any behaviors other than the ones listed, please add them in the blank space provided:

Animal: _____

Behaviors Seen	Minute 1	Minute 2	Minute 3	Total Tallies
Eating				
Chasing				
Hiding				
Playing				
Breathing				
Sleeping				

What behavior did you see your animal do the most?

What kind of conclusions can you make from your observations? (Keep in mind that your three-minute observation does not represent a full day of the animal's life.)