Biodiversity: Conservation

NAME:

Year 7 to 10

The web of life! From tiny phytoplankton to playful dugongs, every organism counts. Biodiversity is the variety of life at all levels of organisms. And it is in trouble. What are some threats to biodiversity? (i.e. habitat destruction)

_____

_____

Endangered Species: In each area you visit at SEA LIFE Sydney Aquarium today, think about the survival needs of the animals and the impacts that are threatening their survival. In the table below, list seven animals that are endangered or vulnerable. Include the conservation status and impacts threatening survival.

Name of Organism	Conservation Status	Impacts Threatening Survival

Sustainable Fishing- Making better choices at the supermarket. Tick the seafood that is not currently overfished, is generally resilient to fishing pressure at current levels, is caught or farmed using techniques that have a lower environmental impact and thus encouraged as the better choice at the supermarket.

- ☐ Barramundi
- ☐ Southern Bluefin Tuna
- ☐ Brim
- ☐ Deep Sea Perch
- ☐ Whiting
- ☐ Mussels and Oysters
- ☐ Mullet
- ☐ Blue Swimmer Crabs
- ☐ Shark (Flake)
- ☐ Flathead
- ☐ Calamari
- ☐ Prawns

www.sustainableseafood.org.au for a pocket guide!

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Knowing what, where and how many!

Measuring biodiversity is important for conservation biology. A simple way to measure biodiversity is to measure species richness (identify all species present) and species abundance (count the number of organisms present). Undertake a richness and abundance survey in a tank at SEA LIFE Sydney Aquarium. Record your results in the table below:

Species Richness		Species Abundance
Organism	Description	Number of Individuals
1. Grey nurse shark		

Climate Change:

Many marine plants and animals cannot adapt quickly to a rapidly changing climate. How will the following effects of climate change impact coral reefs? Write your answer in the space provided.

Warmer sea temperatures: _____

Extreme weather events: _____

Ocean acidification: _____

Sea Level Rise: _____

Living Sustainably:

Individual choices, made billions of times a day, count the most. What possible measures could we take in our own lives to ensure species do not become extinct? _____

_____