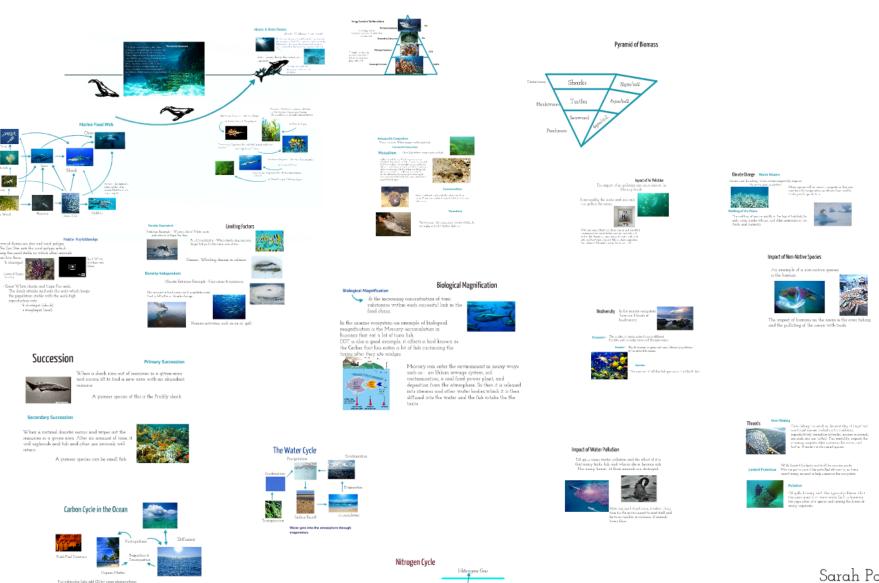


Dentitrifying Bacteria

Sarah Ponder 3/7/13

Fair-Mead Marine

The Case Solution.com



Sarah Ponder 3/7/13

Fair-Mead Marine

The Case Solution.com

The ocean is an ecosystem that's found within the marine biome. It represents the largest & most diverse of all ecosystems. Many different kinds of organisms live in this habitat, from whales to sharks & from stingrays to clown fish. This large ecosystem covers about 3/4ths of the Earth's surface & supplies much of the world's oxygen from the marine algae & and takes in large amounts of atmospheric CO2.

The Marine Ecosystem

The ocean covers most of the Earth's surface so it surrounds all of the continents, is in both hemispheres, and doesn't have an exact latitude/longitude.

Herbivores- Organism that eats plants.

Ex. Brine Shrimp & Zooplankton



Omnivores- Organism that eats both plants and other animals. Ex. Craps & Sea Turtles

Producer- Autotropic organism that can produce organic compounds through photosynthesis or through chemosynthesis.



Ex. Kelp & Algae







Carnivore- Organism that eats other animals.

Ex. Sharks & Orcas

Decomposer- Organism that decomposes organic material.

Ex. "Green" Algae & Ocean Algae

Abiotic & Biotic Factors

Abiotic- Nonliving components.

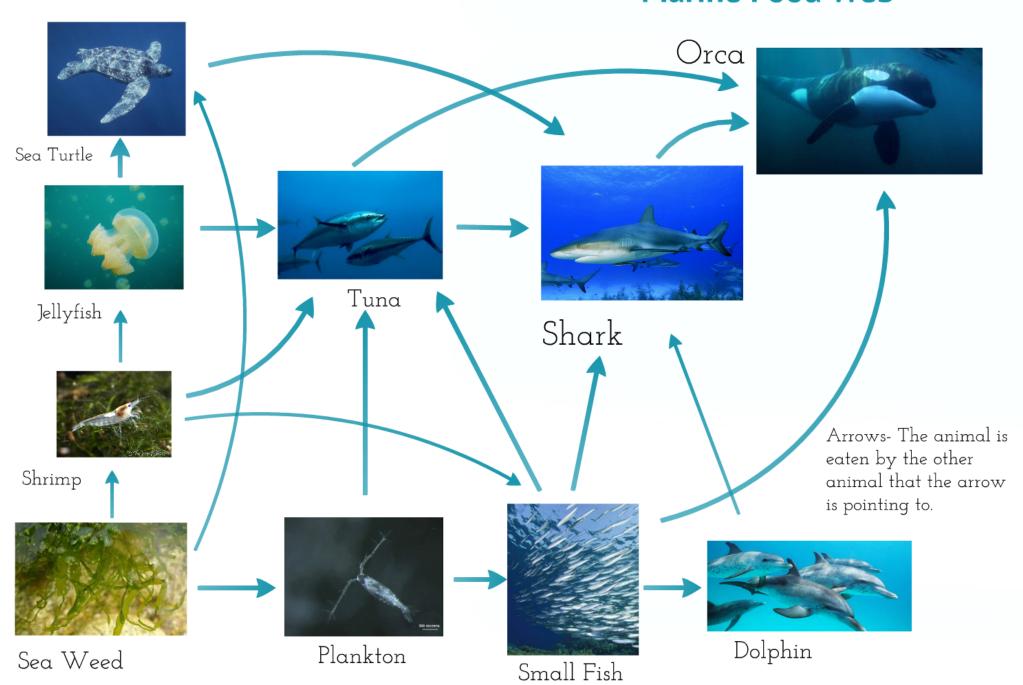


Ex. Sunlight, temperature of the water, the chemical composition of O2 & CO2, the terrain such as a sandy bottom floor, the water disturbance such as waves and currents that determine the amount of O2 and CO2.

Biotic- Living things that shape an organism.

Ex. Dolphins, Whales, stingrays, bacteria, and plankton.

Marine Food Web



Predator- Prey Relationships

wn-of-thorns sea star and coral polyps.

ne Sea Star eats the coral polyps which

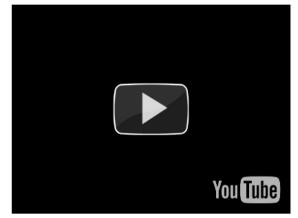
ep the coral stable in which other animals

n live there.

~k strategist







Great White attacking seal Video

- Great White sharks and Cape Fur seals.

The shark attacks and eats the seals which keeps the population stable with the seals high reproduction rate.

~k strategist (shark)

~r stractorist (saal)

Energy Pyramid of The Marine Biome

Tertiary Consumer

As energy moves through a pyramid, it can be lost through heat.

Secondary Consumer

1%

1%

Primary Consumer

Through transferring energy, 90% of it is lost so the organism gains only 10%.

Autotrophic Level



10%

100%