

ECOLOGY

LEVELS IN ECOLOGY

BIOSPHERE

ECOSYSTEM

COMMUNITY

POPULATION

ORGANISM

ECOSYSTEMS

PARTS OF AN ECOSYSTEM

NONLIVING COMPONENTS

LIVING COMPONENTS
PRODUCERS

AUTOTROPHS

CONSUMERS

HETERPTROPHS

DECOMPOSERS

ENERGY FLOW IN ECOSYSTEMS

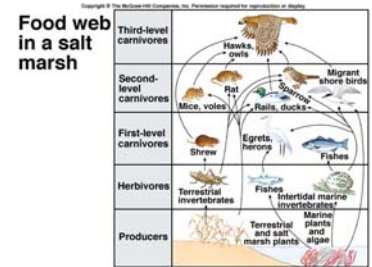
FOOD CHAINS
PRODUCERS

PRIMARY CONSUMERS (HERBIVORES)

SECONDARY CONSUMERS (CARNIVORES)

DECOMPOSERS

TROPHIC LEVELS
GENERAL CONCEPTS



ECOLOGICAL PYRAMIDS

HUMANS - EATING LOWER IN THE FOOD CHAIN

TROPHIC LEVELS & TERRITORY REQUIREMENTS

LISTEN TO THE EFFECT OF OUR FISHING METHODS ON MARINE FOOD CHAINS AT

<http://webhome.broward.edu/~sobenauf/zoo2010/podcasts%20zoo/Fishing%20down%20the%20food%20chain.mp3>

NUTRIENT CYCLES IN ECOSYSTEMS

GENERAL CONCEPTS

CARBON CYCLE

NITROGEN CYCLE

ANIMALS AND THEIR ECOLOGICAL NICHES

INTERACTIONS BETWEEN ANIMAL POPULATIONS

REPRODUCTION & GROWTH
ANIMAL POPULATIONS

RESOURCES

CARRYING CAPACITY

POPULATION INTERACTIONS
PREDATOR-PREY

HOST-PARASITE

COMMENSALISM & MUTUALISM

COMPETITION

KEYSTONE SPECIES
DEFINITION

EXAMPLES: ALLIGATOR

EXAMPLES: SEA OTTER

BIODIVERSITY & EXTINCTION

BIODIVERSITY
DEFINITION

WHY DOES IT MATTER?

CREATING NEW SPECIES

EXTINCTION
GENERAL CONCEPTS

MASS EXTINCTIONS

CURRENT EXTINCTION RATE

CAUSES OF BIODIVERSITY LOSS

LOSS OF TERRESTRIAL HABITATS
DEFORESTATION

DESERTIFICATION

LOSS OF AQUATIC ORGANISMS AND HABITATS
WETLANDS DESTRUCTION

OVERFISHING & BYCATCH

CLIMATE CHANGE

