

# ECOSYSTEM POWERPOINT

Select an ecosystem:

## **Biome (terrestrial)**

Tundra	Savanna	Deciduous Forest
Taiga	Desert	Chaparral
Tropical Rain Forest		

## **Aquatic**

Lake	Estuary/Wetland	Sandy Shore
Rocky Intertidal	Epipelagic (Top)	Benthic-abyssal, bathypelagic

## **First Slide**

- 1) Name of biome/aquatic ecosystem
- 2) Picture that epitomizes that biome

## **Second Slide**

Climate:

- 1) annual precipitation (doesn't apply for aquatic)
- 2) average annual temperature
- 3) locations worldwide where the biome is located (particular latitude?)
- 4) picture that displays geographic location
- 5) salinity and levels of dissolved oxygen, nitrates, and phosphates, pH, turbidity (doesn't apply to terrestrial)

## **Other Information To Include:**

- 1) soil components: abiotic and biotic
- 2) describe the community of organisms. Include a food web labeling producers, primary consumers, secondary consumers, tertiary consumers, and decomposers. Include a diagram of the food web.
- 3) What is an ecotone? Give an example of where this would occur in your biome. I.e. pick one region that has this particular biome and show the edge effect.
- 4) What are the limiting factors for this ecosystem?
- 5) Based on the limiting factors, give specific examples of how plants and animals adapt to these limiting factors.
- 6) Does this ecosystem have a high or low biodiversity? Explain why.
- 7) Describe the range of tolerance for one organism in this ecosystem.
- 8) Identify a threshold effect in the ecosystem for the same particular organism.
- 9) Identify a generalist species. Explain.
- 10) Identify a specialist species. Explain.
- 11) Identify an indicator species. Explain.
- 12) Identify a keystone species. Explain.
- 13) Identify one more examples of symbiosis: mutualistic, commensalistic, parasitic?
- 14) Identify an example of resource partitioning.
- 15) Environmental problems and statistics on endangered species.
- 16) Environmental groups and legislation that works to preserve/protect this ecosystem.

YOU WILL PRESENT THIS AS AN ECOTOURISM TRAVEL AGENT. YOU HAVE TO MAKE THEM WANT TO GO TO YOUR ECOSYSTEM. KEEP THE FOLLOWING IN MIND:

- Do not read from the powerpoint....use it as a guide and the content should come from you.
- DRESS THE PART!!!