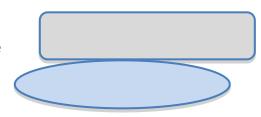
BIODIVERSITY:

CHAPTER 6.3

BIODIVERISTY (Define):

TYPES OF BIODIVERISTY:

- ✓ The variety of habitats, communities, and ecological processes in the biosphere is.....
- ✓ The number of different species in the biosphere or in a particular is...



✓ Refers to the sum total of all different forms of genetic information carried by a given species, or by all species on Earth.....

VALUING BIODIVERSITY: Briefly describe threee (3) different ways that biodiversity benefits society:

1.

2.

3.

THREATS TO BIODIVERSITY:

- ✓ There are many ways in which biodiversity can be threatened, such as
- \checkmark What are two (2) reasons that habitats may be altered:

0

Altering habitats
Hunting
Invasive Species
Pollution
Driving Climate
Change

 \checkmark Looking at all of the threats to biodiversity, what /who is the main cause for all of them?

CONSERVING BIODIVERSITY: Give a brief description of the following.....

- 1. Protecting Individual Species:
- 2. Preserving Habitats and Ecosystems:
 - Define "Ecological Hotspot"
- 3. Considering Local Interests:

MEETING ECOLOGICAL CHALLENGES:

CHAPTER 6.4

ECOLOGOCAL FOOTPRINTS (Define):



List the different aspects that are taken into account when calculating an ecological footprint:

✓ What are the limitations to calculating a "footprint"?

CHAPTER 6.3 AND 6.4 PRACTICE.....

For Questions 1–5, write True if the statement is true. If the words to make the statement true.	statement is false, change the underlined word or			
1. The current rate of species loss is <u>10</u> to	imes the typical rate of extinction.			
2. The smaller a habitat "island," the larger the number of species that can live there.				
3. Habitat fragmentation <u>increases</u> the in	mpact of hunting on endangered species.			
4. Endangered species can become invas				
	n dioxide in air is making oceans more acidic and putting			
6. What are five ways that human activity reduces biodiversity	7?			
7. Identify three reasons why endangered species are hunted.				
8.How can introduced species lead to economic losses?				
9.How does climate change threaten biodiversity?				
	Changes in Global Temperature			
How does the change in global temperature between 1850 and 2000 compare with the change that occurred between 1.0				
1850 and 1880?				
10.	e e			
	0.5 M			
11. List three factors that may have contributed to the trend shown in the graph.	Temperature Change (°C)			
12. Suggest three possible effects of global warming on the future of the biosphere.	-0.5 1850 1900 1950 2000			

Year

Examples of Ecology in Action				
Environmental Change	Cause	Behavior Change Needed		
Hole in the ozone layer				
Declining numbers of fish in the oceans				
Global warming and climate change				

Table I. How Many Species Are There?		
Groups of Species	Number	
Plants	250,000	
Roundworms	more than 15,000	
Mollusks	50,000-200,000	
Crustaceans	40,000	
Spiders, mites	75,000	
Insects	more than 1,000,000	
Vertebrates	60,000	

14. Which group in Figure 6–2, Table I is the most diverse?

Table II. Organisms Listed as Endangered in the United States		
Type of Organisms	Number of Endangered Species	
Mammals	63	
Birds	78	
Reptiles	14	
Amphibians	10	
Fishes	70	
Snails	20	
Clams	61	
Crustaceans	18	
Insects	33	
Spiders	12	
Flowering plants	565	
Conifers	2	
Ferns and other plants	24	

15 Which group in Figure 6–2, Table II has the most endangered species?	
16 Which table in Figure 6–2 tells you about the numbers of species whose population size is declined	ing in a way th

16 Which table in Figure 6–2 tells you about the numbers of species whose population size is declining in a way that places it in danger of extinction?

17 After 10 years, if conservation efforts to protect entire ecosystems succeed, how would Table II in Figure 6–2 likely change?

18. Discuss the importance of biodiversity to the field of medicine. Give an example of a medicine derived from a plant.

19. What is the difference between captive breeding programs and ecosystem preservation in terms of conservation biology? Describe how conservation groups are working to protect biodiversity.